JVC

# PLASMA DISPLAY MONITOR

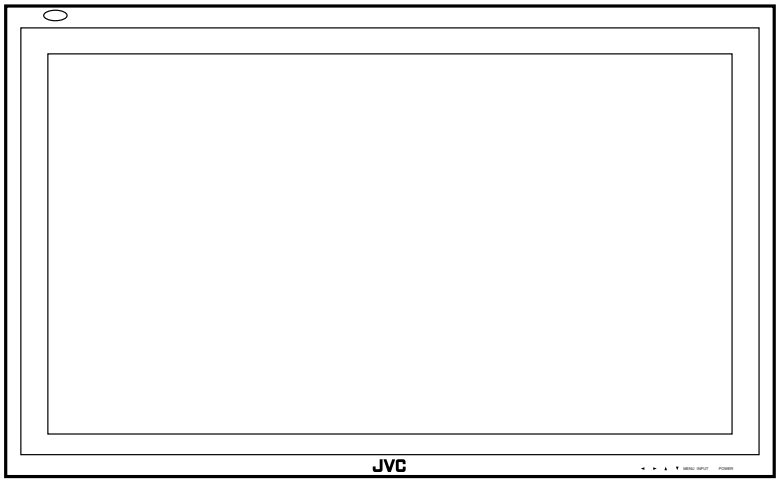
# GM-V42UG
# GM-V42UB

## INSTRUCTIONS

**For Customer Use:**
Enter below the Model No. and the Serial No. which is located on the rear panel of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____




LCT1389-001B

JVC

# INSTRUCTIONS

## Model
## GM-V42UG
## GM-V42UB

*Thank you for purchasing this JVC Monitor.*
*Before using the monitor, read this manual carefully so that you know how to use the Monitor correctly.*
*Refer to this manual whenever questions or problems about operation arise. Be sure to read and observe the safety precautions.*
*Keep this manual where the user can see it easily.*
** Installation and removal require special expertise. Consult your product dealer for details.*

This instruction manual refers to the GM-V42UG and GM-V42UB.
The differences between these two models are its color and class of EMC: GM-V42UG is gray and is categorized in class A, while GM-V42UB is silver and is categorized in class B.

## Contents


Page

Safety Precautions ..... 2
Parts Identification ..... 4
- Remote Control ..... 4
- Monitor: Front View ..... 5
- Monitor: Rear Views ..... 6

Preparations ..... 8
- Checking the Accessories ..... 8
- Installing the Batteries ..... 8
- Attaching the Ferrite Core ..... 8

Installation ..... 9
- Precautions ..... 9

Connections ..... 10
- Precautions ..... 10
- Available Signals ..... 10
- Connection Diagrams ..... 11

Basic Operations ..... 14
- Daily Operations ..... 14
- Changing the Aspect Ratio ..... 15

Video Adjustments ..... 16
- Adjusting the Picture Quality ..... 16
- Adjusting the Screen Size and Position ..... 17
- Adjusting the Color Temperature ..... 19
- Adjusting the White Balance ..... 19
- Changing the Aspect Ratio ..... 21
- Setting the Receivable Signal Types ..... 21
- Setting the COMPONENT/RGB B Input ..... 22
- Changing the Resistance of the RGB B Input Terminals ..... 23
- Resetting the Function Selection Menu Settings .. 23

Page

Other Convenient Functions ..... 24
- Showing On-screen Display ..... 24
- Confirming the Use Time and Model Name ..... 25
- Showing the On-screen When Changing the Input Mode ..... 25
- Prohibiting the Monitor's Button Operations ..... 26
- Setting the Remote-Controllable Input ..... 27
- Setting the High-Definition Signal Types ..... 27
- Setting the Clock and the Power On/Off Timer ..... 28
- Using the Pixel Shift Function ..... 29
- Using the Power Save Function ..... 29
- Preventing the Afterimage Effect ..... 30
- Refreshing the Screen ..... 31
- Checking the Timer Battery ..... 32
- Resetting All the Setup Menu Settings ..... 33
- Resetting All the Menu Settings ..... 33

Menu Classifications ..... 34
- Main Menu ..... 34
- Setup Menu ..... 36

Troubleshooting ..... 38
- Self-diagnostic Indication ..... 39

Specifications ..... 40

# Safety Precautions

## FCC NOTICE

### ■ GM-V42UG

**CAUTION:** Changes or modifications not approved by JVC could void the user's authority to operate the equipment.
**NOTE:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### ■ GM-V42UB

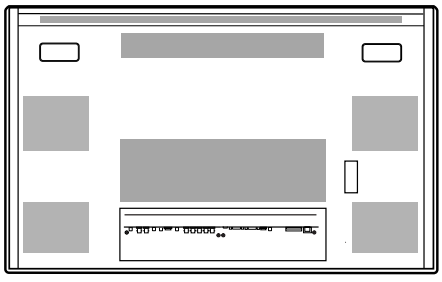
**CAUTION:** Changes or modifications not approved by JVC could void the user's authority to operate the equipment.
**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

# IMPORTANT INFORMATION

WARNING: TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

# IMPORTANT SAFEGUARDS

Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your personal safety. But **IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD**. In order not to defeat the safeguards incorporated into this product, observe the following basic rules for its installation, use and service. Please read these "Important Safeguards" carefully before use.
– All the safety and operating instructions should be read before the product is operated.
– The safety and operating instructions should be retained for future reference.
– All warnings on the product and in the operating instructions should be adhered to.
– All operating instructions should be followed.
– Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
– Use a vacuum cleaner to get rid of the dust around the intakes (all the openings) on the rear. If a vacuum is not available, use a cloth and wipe it off. Failure to do so will cause internal heat buildup and, therefore, cause damage to the product.

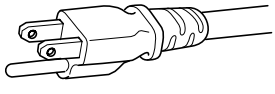


– Do not use attachments not recommended by the product manufacturer as they may be hazardous.
– Do not use this product near water. Do not use immediately after moving from a low temperature to high temperature, as this causes condensation, which may result in fire, electric shock, or other hazards.
– Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. The product should be mounted according to the manufacturer's instructions, and should use a mount recommended by the manufacturer.

– When the product is used on a cart, care should be taken to avoid quick stops, excessive force, and uneven surfaces which may cause the product and cart to overturn, damaging equipment or causing possible injury to the operator.
– Slots and openings in the cabinet are provided for ventilation. These ensure reliable operation of the product and protect it from overheating. These openings must not be blocked or covered. (The openings should never be blocked by placing the product on bed, sofa, rug, or similar surface. It should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the manufacturer's instructions have been adhered to.)
  For proper ventilation, separate the product from other equipment, which may prevent ventilation and keep distance more than 10 cm (3 15/16 inches).
– This product should be operated only with the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.
– This product is equipped with a three-wire plug. This plug will fit only into a grounded power outlet. If you are unable to insert the plug into the outlet, contact your electrician to install the proper outlet. Do not defeat the safety purpose of the grounded plug.
– Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at doors, plugs, receptacles, and the point where they exit from the product.
– For added protection of this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power line surges.
– Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.
– Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
– Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltages and other hazards. Refer all service to qualified service personnel.
– Unplug this product from the wall outlet and refer service to qualified service personnel under the following conditions:
  a) When the power supply cord or plug is damaged.
  b) If liquid has been spilled, or objects have fallen on the product.
  c) If the product has been exposed to rain or water.
  d) If the product operated normally by following the operating instructions. Adjust only those controls that are covered by the Operation Manual, as an improper adjustment of controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
  e) If the product has been dropped or damaged in any way.
  f) When the product exhibits a distinct change in performance – this indicates a need for service.
– When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or with same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
– Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
– The product should be placed more than 30 cm (11 15/16 inches) away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.
– When connecting other products such as VCR's, and personal computers, you should turn off the power of this product for protection against electric shock.
– Do not place combustibles behind the cooling fan. For example, cloth, paper, matches, aerosol cans or gas lighters that present special hazards when over heated.
– Use only the accessory cord designed for this product to prevent shock.
– Do not touch the handles on the rear soon after many hours of continuous use. They are so hot and will cause a burn on the hand. If you need to touch the handles, for example, to move the product, wait until the handles are cooled enough.
– ⚠ Option terminal: This terminal is intended exclusively to be used to drive the fan motor.
  Do not connect any plugs to the terminal other than JVC's recommended optional parts.
  ⊖—⊙—⊕ Polarity of terminal

## POWER CONNECTION

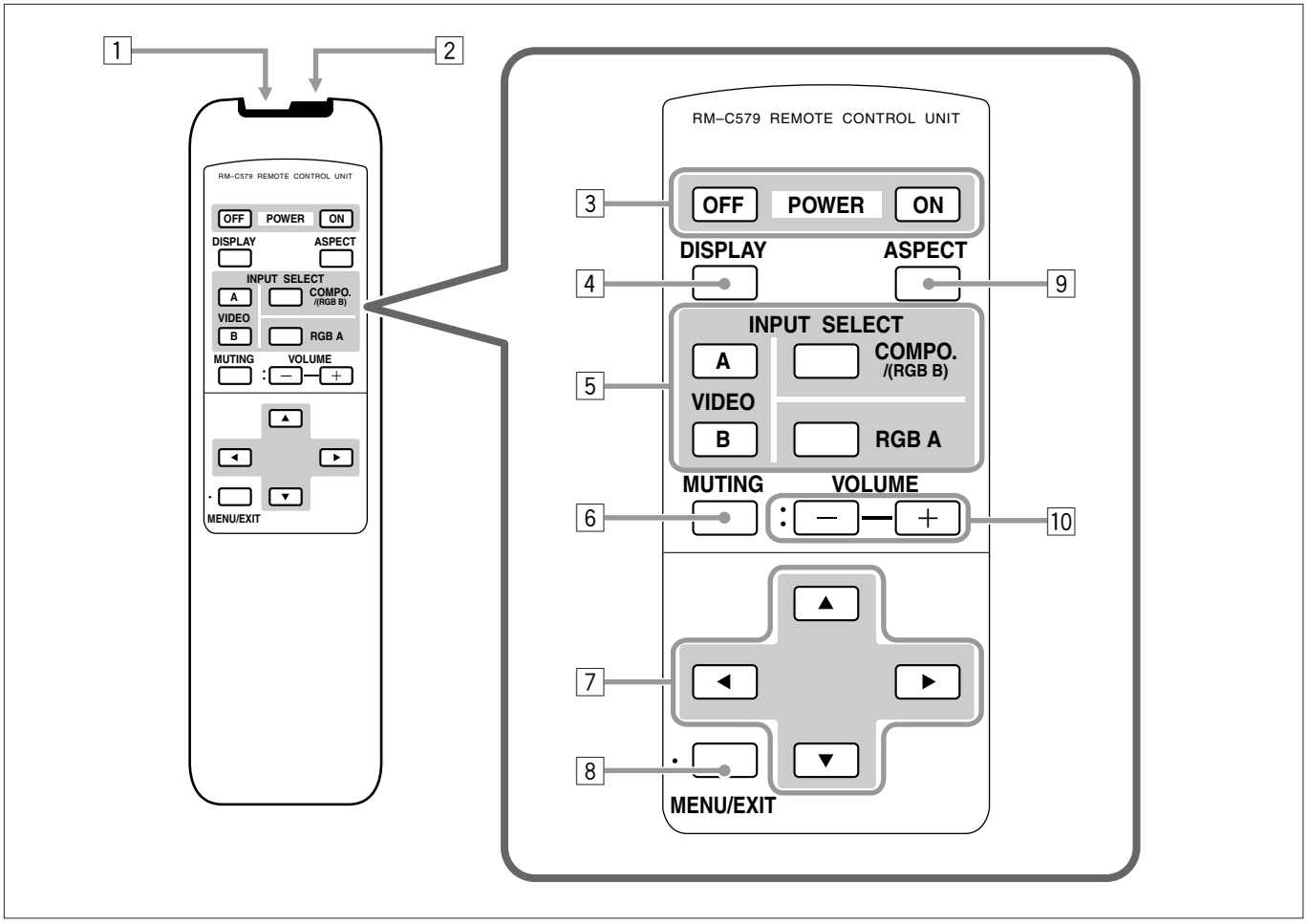
The power supply voltage rating of this product is AC 120 V.
The power cords attached conform to the following power supply voltage and countries.
Use only the power cord designated to ensure Safety regulations of each country.



For U.S.A. and Canada: AC 120 V

# Parts Identification

## Remote Control




1 **Remote control cable jack (page 11)**
Connect the remote control cable (not supplied) when using this remote control as a wired remote control.

2 **Remote signal transmission window**

3 **POWER ON/OFF button (page 14)**
Use this button to turn on/off the power.

4 **DISPLAY button (page 14)**
Use this button to display the input terminal, color system (for VIDEO A or VIDEO B input), scan system (for COMPONENT input) and horizontal/vertical frequency (for RGB A and RGB B input).
Pressing the button again will make the display disappear.

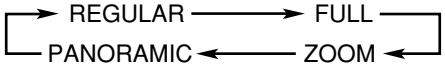
5 **INPUT SELECT (VIDEO A, VIDEO B, COMPO./(RGB B) and RGB A) buttons (page 14)**
Use these buttons to switch between inputs.
To select the COMPONENT or RGB B input, you have to set "RGB/COMPO." correctly on the menu (see page 22).

6 **MUTING button (page 14)**
Use this button to turn off the volume immediately.
Pressing the button again will resume the previous volume level.

7 **◄ / ► / ▲ / ▼ buttons**
Use these buttons to select menu items or make adjustments.

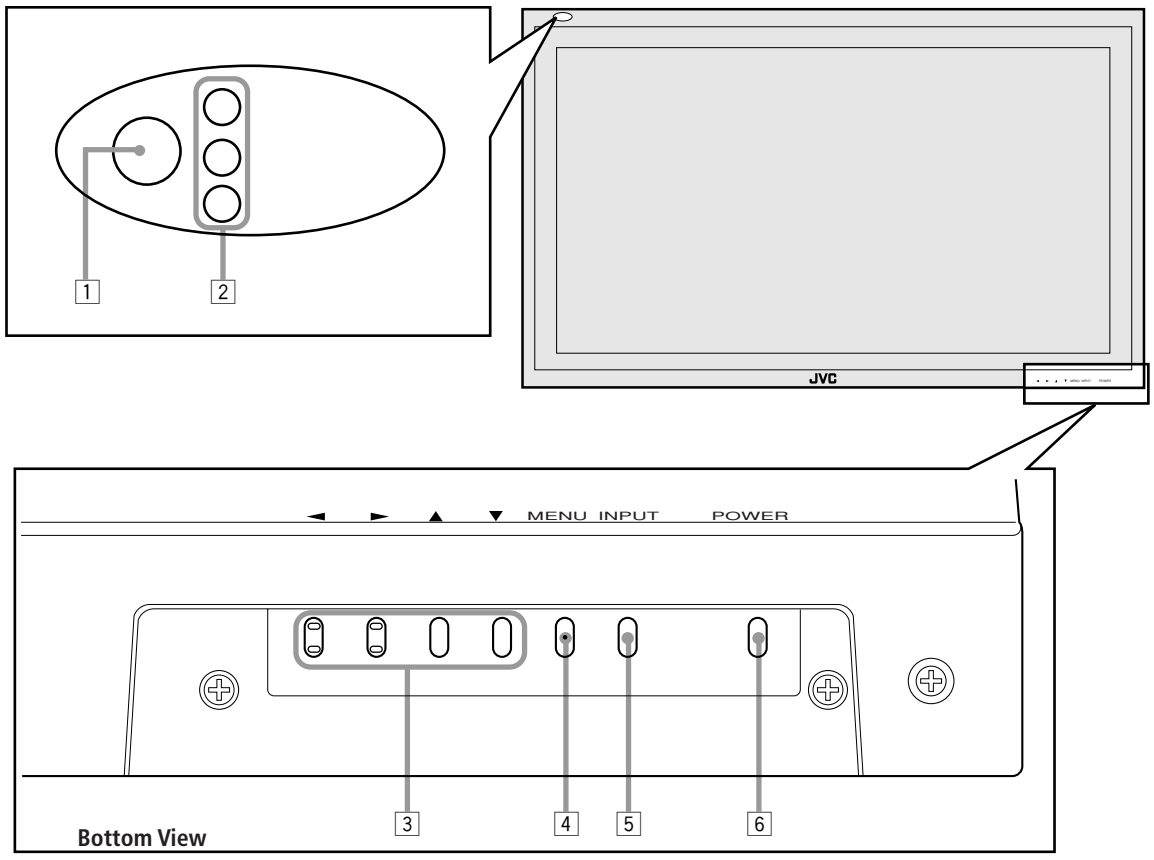
8 **MENU/EXIT button**
Use this button to display or erase menus.
While a sub-menu is displayed, pressing this button will move you one screen back to the preceding menu.

9 **ASPECT button (page 15)**
Use this button to switch between aspect ratios. Each time you press the button, the aspect ratio changes as follows:




10 **VOLUME + / – buttons (page 14)**
Use these buttons to adjust the volume level.
- The VOLUME – button can be also used to display the Setup Menu (see page 25).

## Monitor: Front View




1 **Remote sensor/power lamp**
Point the front end of the wireless remote control toward here.
When the Monitor is turned on, the power lamp glows green. It glows orange in standby mode.

2 **Self-diagnostic lamps (page 39)**
These lamps light/flash if something abnormal occurs with the Monitor.

3 **◄ / ► / ▲ / ▼ buttons**
Use these buttons to select menu items and to make adjustments.

- When no menu is displayed, you can use the ◄ / ► buttons to adjust the volume level.

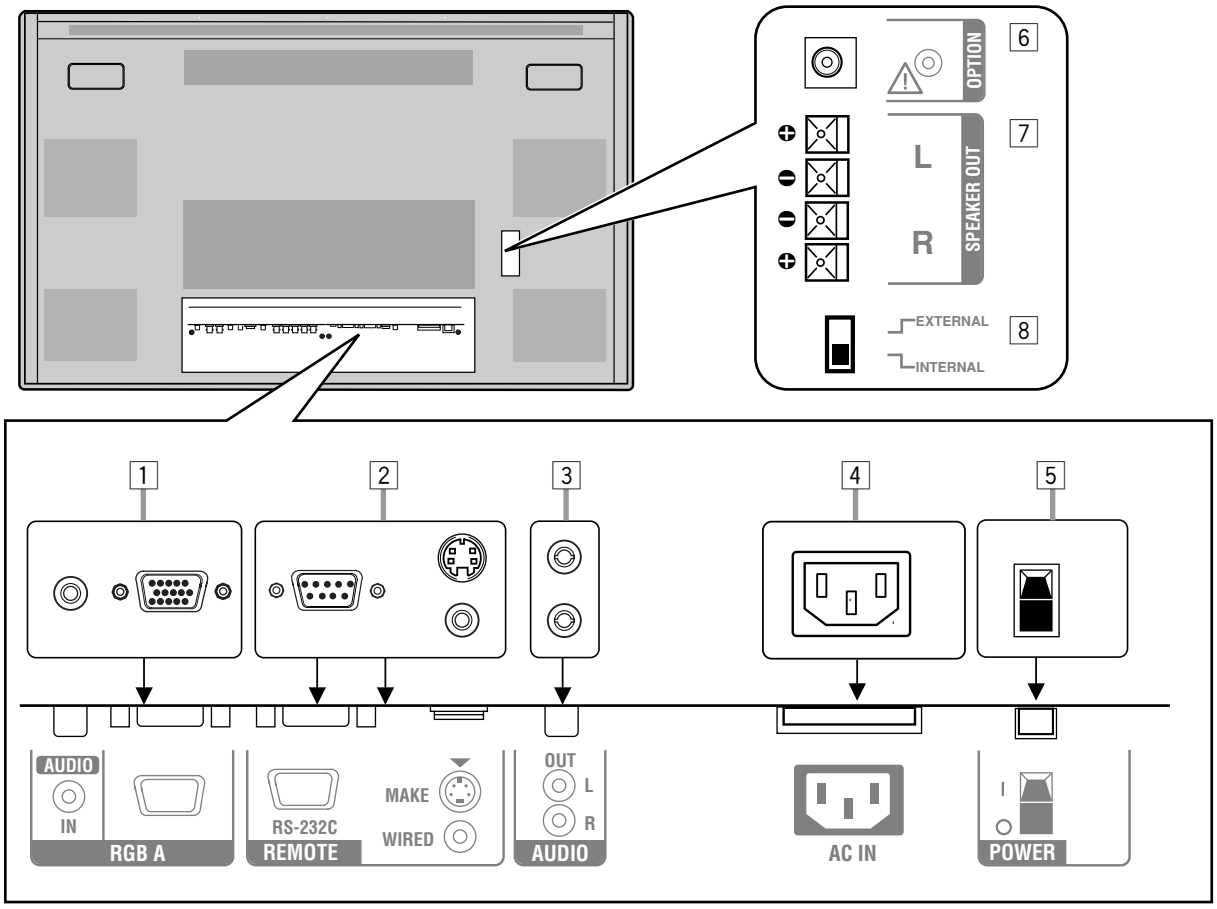
4 **MENU button**
Use this button to display or erase menus.
While a sub-menu is displayed, pressing this button will move you one screen back to the preceding menu.

5 **INPUT button (page 14)**
Use this button to switch between inputs.
To select the COMPONENT or RGB B input, you have to set "RGB/COMPO." correctly on the menu (see page 22).

6 **POWER button (page 14)**
Use this button to turn on and off the Monitor.

# Parts Identification (Continued)

## Monitor: Rear Views




1 **RGB A input terminals (page 11)**

- D-sub, 15 pin
  Connect to the video output terminal of a personal computer.
- AUDIO IN (stereo mini jack)
  Connect to the audio output terminal of a personal computer.

2 **REMOTE terminals (pages 11 and 13)**

- RS-232C (D-sub, 9 pin)
  Connect to the RS-232C terminal of a personal computer. For the control method using this terminal, consult an authorized JVC dealer.
- MAKE terminal (mini DIN 4pin)
  Connect an external control unit. (See page 13.)
- WIRED terminal (stereo mini jack)
  Connect a wired remote control unit to this terminal.

**Note:**

- When the above three terminals are used at the same time, transmitted commands through the MAKE terminal have priority over those through the other terminals.

3 **AUDIO OUT terminals (pin jack) (page 11)**
Connect to the audio input terminals of external equipment such as an amplifier.

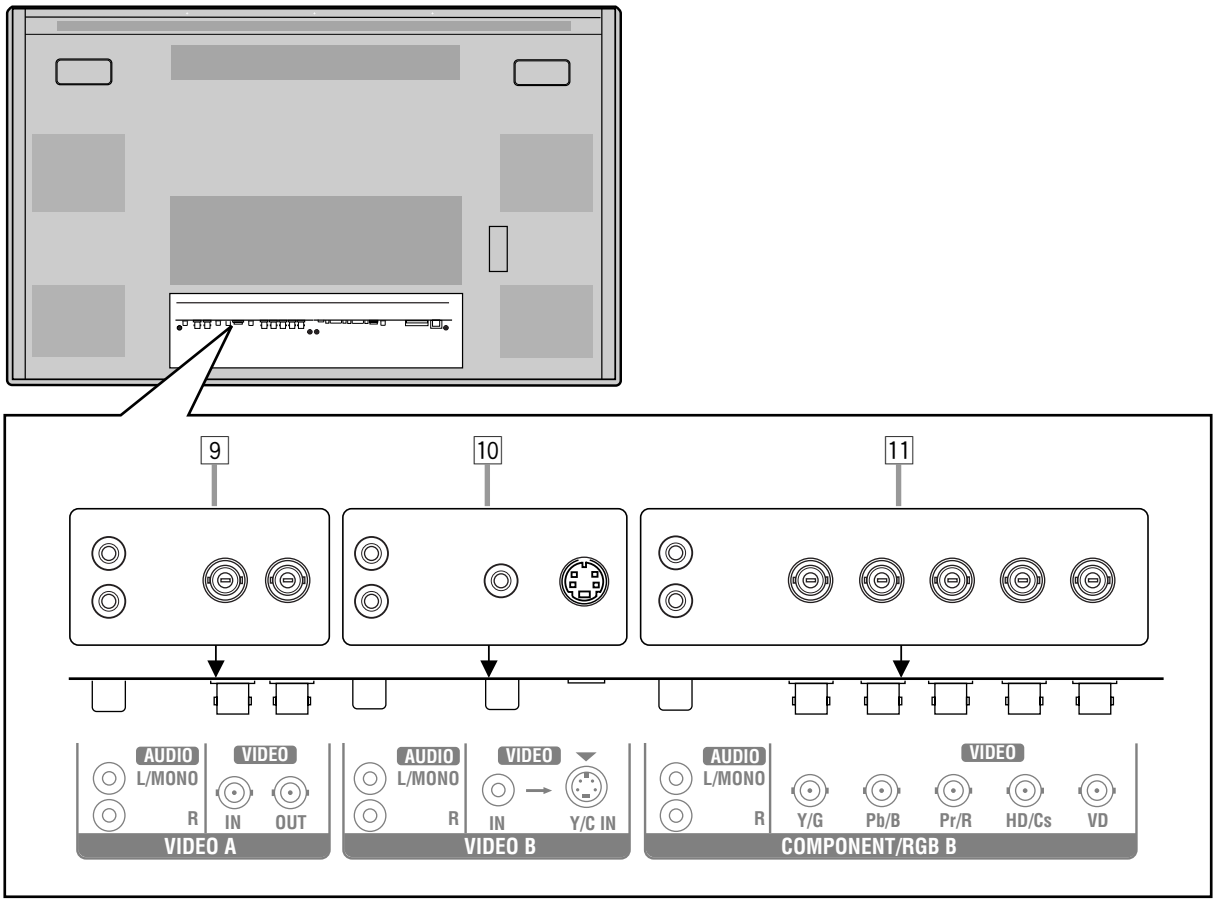
4 **AC IN terminal (page 11)**
Connect the supplied power cord to this terminal.

5 **POWER switch (page 14)**
Setting this switch to "**I** (on)" will put the Monitor into standby mode, allowing you to turn on and off the power using the POWER button either on the remote control or on the Monitor.

6 **OPTION terminal (page 13)**
Connect the power cord of the Cooling Fan Unit (not supplied) when installing the Monitor vertically.

7 **SPEAKER OUT L/R terminals (page 11)**
Connect external speakers, such as unique JVC speakers (not supplied), etc.

8 **INTERNAL/EXTERNAL (built-in speaker/external speaker) selecting switch (page 11)**
INTERNAL: To use built-in speakers.
EXTERNAL: To use external speakers.




9 **VIDEO A terminals (page 12)**

- AUDIO (L/MONO, R) input terminals (pin jack)
  Connect these terminals to the audio input terminals of a VCR, etc.
- VIDEO IN terminal (BNC)
  Connect this terminal to the video output terminal of a VCR, etc.
- VIDEO OUT terminal (BNC)
  Connect this terminal to the video input terminal of another Monitor.

**Note:**

- Since the video output terminals on this Monitor are loop-through terminals, the devices connected to this video output terminal should be correctly terminated. Otherwise, pictures become abnormally bright or the Monitor screen gets affected abnormally.

10 **VIDEO B terminals (page 12)**

- AUDIO (L/MONO, R) input terminals (pin jack)
  Connect these terminals to the audio output terminals of a VCR, etc.
- Y/C (S video) IN terminal (mini DIN 4pin)
  Connect this terminal to the S-video output terminal of a VCR, etc.
- VIDEO IN terminal (pin jack)
  Connect this terminal to the video output terminal of a VCR, etc.

**Note:**

- When both the video and S-video terminals are connected, the S-video terminal will have priority.

11 **COMPONENT/RGB B input terminals (page 12)**

- AUDIO (L/MONO, R) input terminals (pin jack)
  Connect these terminals to the audio output terminals of the other equipment.
- G, B, R, HD/Cs, VD (VIDEO) input terminals (BNC)
  Connect these terminals to the following output terminals of a personal computer or other equipment:
  – Analog RGB signal output terminals
  – Horizontal sync (HD) signal or composite (Cs) signal output terminal
  – Vertical sync (VD) signal output terminal

**Notes:**

- External sync signals are automatically detected when they come in.
- When both horizontal (HD)/vertical (VD) sync and composite (Cs) sync are connected, HD/VD sync signals will be used.

- Y, Pb, Pr (VIDEO) input terminals (BNC)
  Connect these terminals to the component signal output terminals of NTSC or high-vision equipment.

**Note:**

- When these terminals are used as the component terminals (Y, Pb, Pr)—see "Setting the COMPONENT/RGB B Input" on page 22, external sync signals (HD/Cs, VD) cannot be used.

# Preparations

## Checking the Accessories

The following accessories are included with the Monitor. Check for them. If any item is missing, please contact the dealer where you purchased the Monitor.

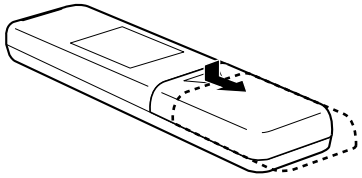
- Remote control (RM-C579) x 1
- Power cord x 1
- Batteries (AA/R6P) x 2
- Ferrite core x 1 (Only for GM-V42UG)

## Installing the Batteries

Put the batteries in the remote control as follows. If the remote control has become erratic in operation, change the batteries.

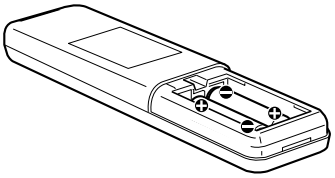
### *1* Remove the back cover.

While pushing the release lever on the cover, remove the cover in the direction of the arrow.



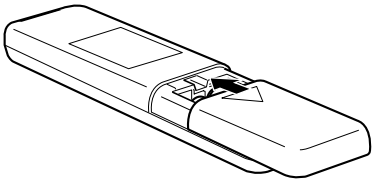
### *2* Place the batteries.

Put the two supplied batteries (AA/R6P), noting the ⊕ and ⊖ markings, as shown.



### *3* Replace the back cover as illustrated.

Make sure the release lever on the cover is locked in place correctly.



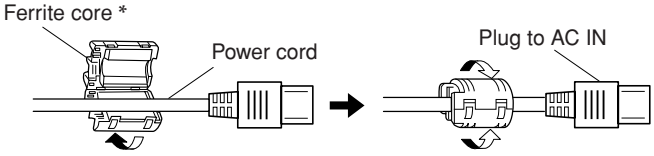
### Precautions for using batteries

If batteries are used improperly, the liquid could leak out, causing a fire, injury, etc. or dirtying the vicinity.
Take notice of the following:

- Do not mix old and new batteries.
- Do not mix different types of battery as different types may have different characteristics.
- Place the batteries according to the ⊕ and ⊖ markings indicated on the battery compartment.
- When installing the batteries, insert the ⊖ end first to avoid a short circuit.
- Use only the specified batteries.
- When you are not using the remote control for a long time, remove the batteries.
- When the batteries have reached the end of their life, replace them with new ones immediately. Otherwise, the liquid may leak out, or malfunction may be caused by the leaked liquid. If the leaked liquid contacts your skin, wipe off the liquid with a soft cloth. If the affected skin is left as is, you may get a rough skin.
- Do not throw the batteries into fire or try recharging them.
- The service life of batteries is six months to one year for normal use. The supplied batteries are only for checking the operation and their life may be shorter. When the remote control operation becomes erratic, replace with new batteries.

## Attaching the Ferrite Core (GM-V42UG Only)

Attach the ferrite core to the power cord. Using the power cord without the ferrite core may lead to noise (interference). Open the ferrite core, insert the power cord and close the ferrite core. Attach the ferrite core to the AC IN end of the power cord.



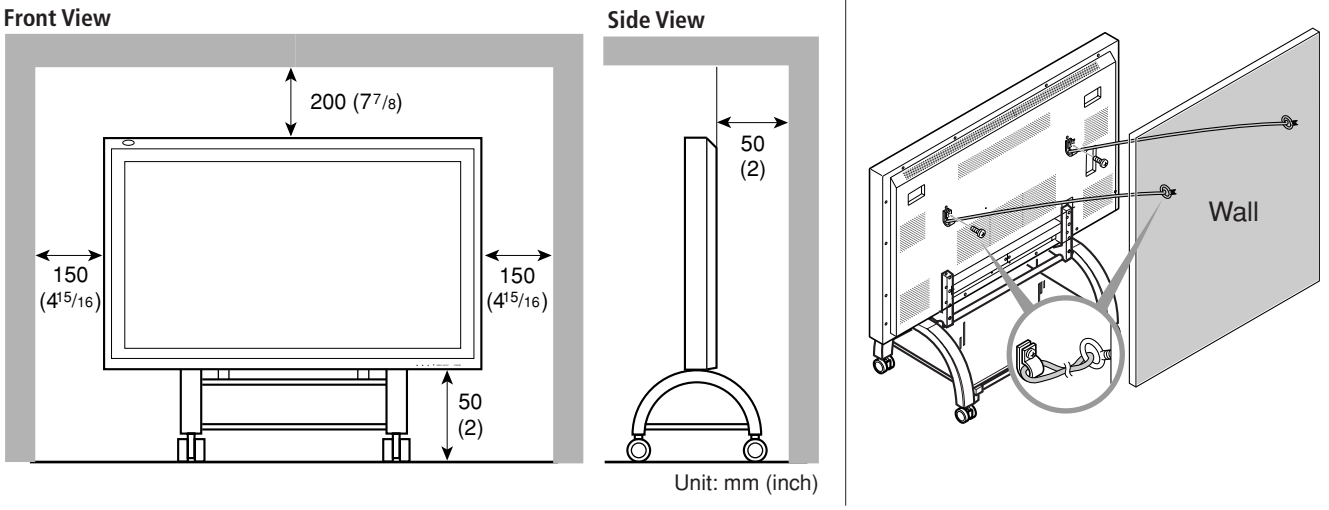

* Not supplied to GM-V42UB

# Installation

## Precautions

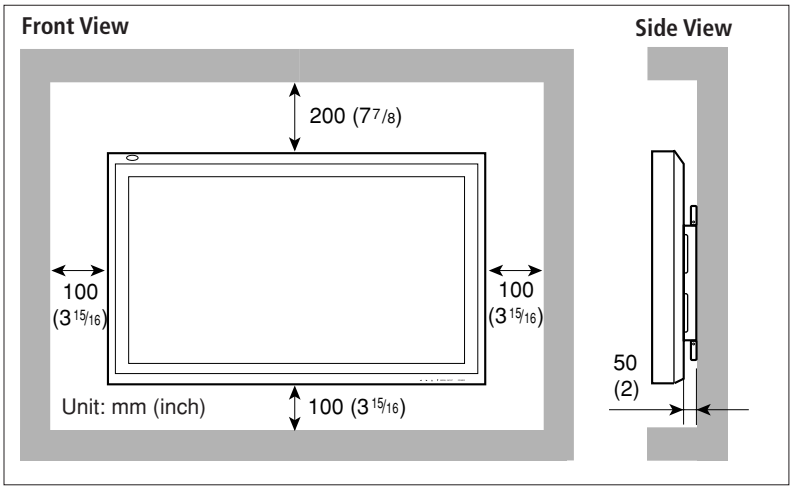
- **When mounting the Monitor vertically, consult your dealer. (See also page 13).**
- When installing the Monitor, be sure to use a dedicated Stand Unit, Wall Mounting Unit, or Monitor Hanger Unit, depending on a particular case. Ask your dealer for installation.
- When installing the Monitor, refer also to the user manual for each option to use. Do not tilt the Monitor rightward, leftward, or backward.
- Route the power cord and connection cables along wall or floor corners to avoid walking on them.
- For good heat dissipation, try to leave the following distances of space (minimum) around the Monitor.
- The ambient temperature of the installation place should be within the range of 0℃ to 40℃ (slightly variable depending on ambient conditions for installation.)
- When installing the Monitor in a place, such as near the ceiling, the remote control may not work correctly because of possible effects from the surroundings. If this happens, use the remote control as a wired remote control or move the Monitor where it is free from these effects.

### When installing the Monitor on a stand

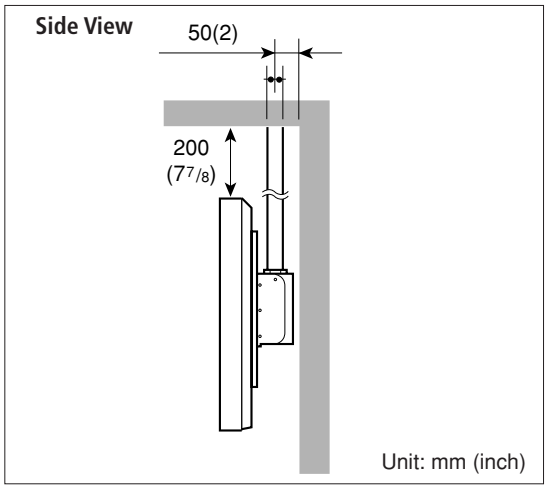



**Take measures against the Monitor from overturning:**
To protect against abnormal events such as earthquakes and to prevent unexpected accidents, take appropriate measures for preventing the Monitor from overturning; should it overturn, this could lead to personal injury.
For detailed information, refer to the manual supplied for the stand.

### When mounting the Monitor on the wall




### When hanging the Monitor from the ceiling




**Notes:**

- Do not allow the same image (pattern) to be continuously displayed on the screen for a long time; otherwise, the area on the screen corresponding to the image may vary in brightness, leaving an afterimage on the screen. To reduce the afterimage, you can use the Refresh function (see page 31).
- The Monitor is manufactured using very high-precision technology, allowing for more than 99.99% active pixels, however, be aware that only a slight number of pixels may be deficient or lit at all times.
- Do not install the Monitor in such a way that the Monitor and other AV equipment affect each other adversely. (For example, if a disturbed image or noise due to electromagnetic interference occurs, or if the infrared remote control malfunctions, change the installation place.)

# Connections

## Precautions

- Before making connections, turn off all the equipment.
- Plugs should be firmly inserted; poor connection could cause noise.
- To unplug a cord, be sure to grasp its plug and pull it out.
- Connect the power cord after having finished all other connections.
- Refer also to the user manual of each piece of equipment.

## Available Signals

### Video signals

The following signals can be input to this Monitor:

- VIDEO A and VIDEO B terminals accept — NTSC, PAL M, and PAL N signals.
- COMPONENT/RGB B terminals accept — 480i, 576i, 480p, 576p, 720/60p, 1080/50i, and 1080/60i (1035/60i) signals. (You need to set "RGB/COMPO." to "COMPO." on the menu (see page 22).

### Computer signals (Preset)

This Monitor has 18 preset video modes for the most popular industrial standard, and the signals of the following image resolutions can be input to the RGB input terminals.

| No. | Signal name | Screen resolution | | Horizontal Frequency (kHz) | Vertical Frequency (Hz) | Scan system |
|---|---|---|---|---|---|---|
| | | Horizontal | Vertical | | | |
| 1 | PC98 | 640 | 400 | 24.8 | 56.4 | Non-interlace |
| 2 | VGA400-70 | 640 | 400 | 31.5 | 70.1 | Non-interlace |
| 3 | VGA480-60 | 640 | 480 | 31.5 | 59.9 | Non-interlace |
| 4 | VGA480-72 | 640 | 480 | 31.7 | 72.8 | Non-interlace |
| 5 | VGA480-75 | 640 | 480 | 37.5 | 75.0 | Non-interlace |
| 6 | WVGA-60 | 852 | 480 | 31.7 | 60.3 | Non-interlace |
| 7 | MAC13" | 640 | 480 | 35.0 | 66.7 | Non-interlace |
| 8 | SVGA-56 | 800 | 600 | 35.2 | 56.3 | Non-interlace |
| 9 | SVGA-60 | 800 | 600 | 37.9 | 60.3 | Non-interlace |
| 10 | SVGA-72 | 800 | 600 | 48.1 | 72.2 | Non-interlace |
| 11 | SVGA-75 | 800 | 600 | 46.9 | 75.0 | Non-interlace |
| 12 | XGA-60 | 1024 | 768 | 48.4 | 60.0 | Non-interlace |
| 13 | XGA-70 | 1024 | 768 | 56.5 | 70.1 | Non-interlace |
| 14 | XGA-75 | 1024 | 768 | 60.0 | 75.0 | Non-interlace |
| 15 | XGA-85 | 1024 | 768 | 68.7 | 85.0 | Non-interlace |
| 16 | XGA+-75 | 1152 | 864 | 67.5 | 75.0 | Non-interlace |
| 17 | RGB15K-60 | — | — | 15.7 | 59.9 | Interlace |
| 18 | RGB15K-50 | — | — | 15.6 | 50.0 | Interlace |

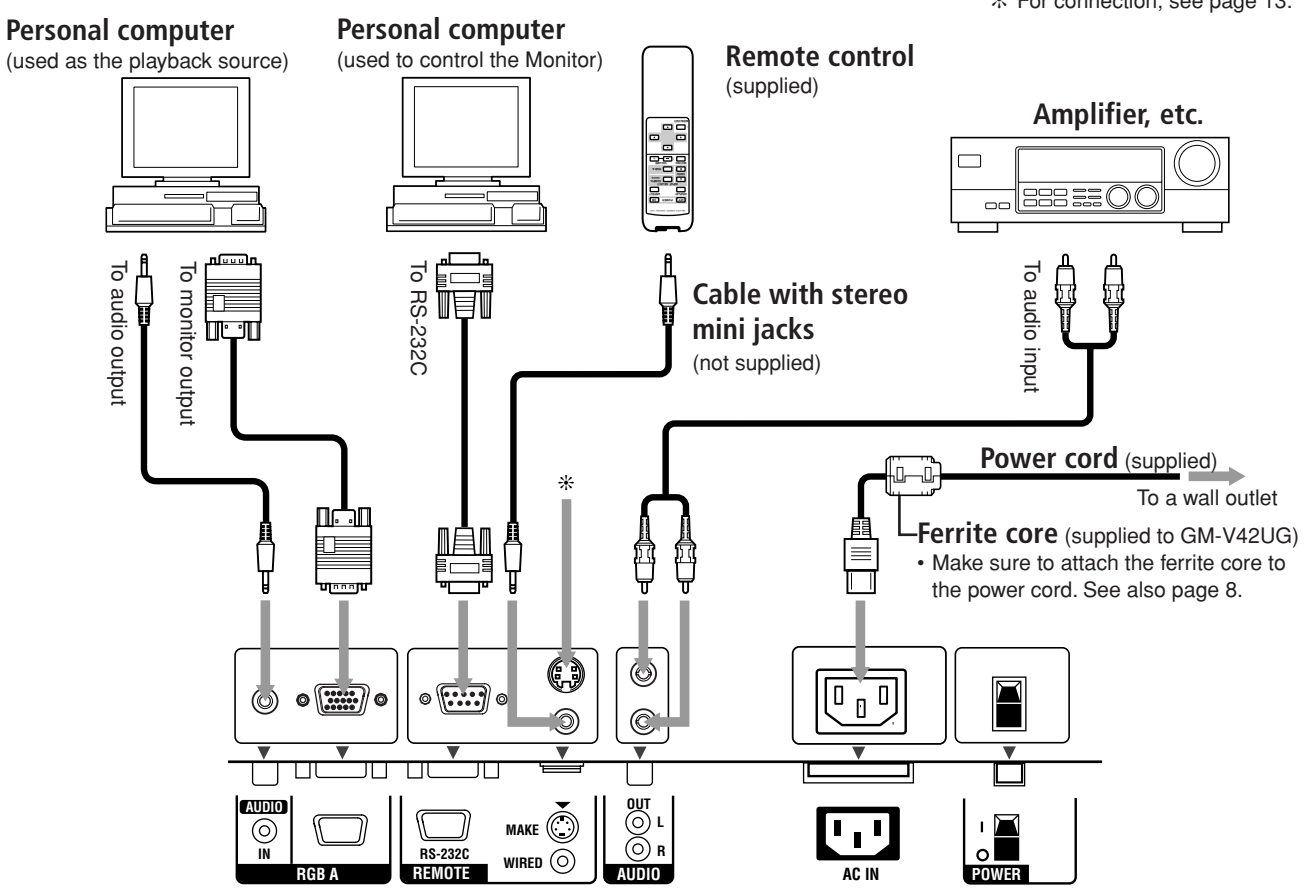
**Notes:**

- When a signal other than listed above is input, a part of the screen may become void or an unnecessary picture may appear.
- Signals, though they are within the acceptable range of frequencies, may not be displayed normally, depending on the signal type.
- Depending on the connected equipment, the Monitor may not be compatible with composite sync (Cs) or G on sync signals.
- When a preset mode signal is input, the vertical frequency displayed on the screen will have an "*" shown at its right top position.
- When the No. 6 signal is input, change the aspect ratio to "FULL" with the ASPECT button (page 15) on the remote control or from the "FUNCTION SELECT" menu (page 21).
- When No. 8 to No. 16 signals are input, thin lines may become obscure for their signal frequencies are higher than the screen resolution.

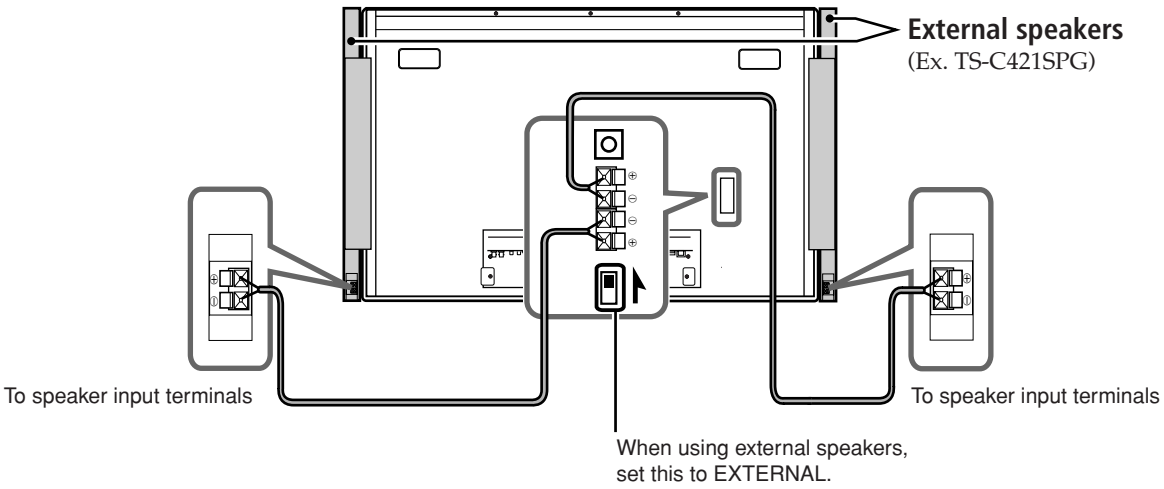
## Connection Diagrams

### Typical connections

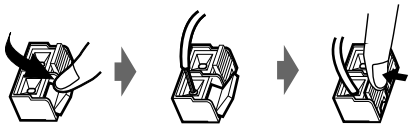
❊ For connection, see page 13.




### External speaker connection


External speakers
(Ex. TS-C421SPG)
To speaker input terminals
To speaker input terminals
When using external speakers, set this to EXTERNAL.

**How to connect the cords**



**Note:**

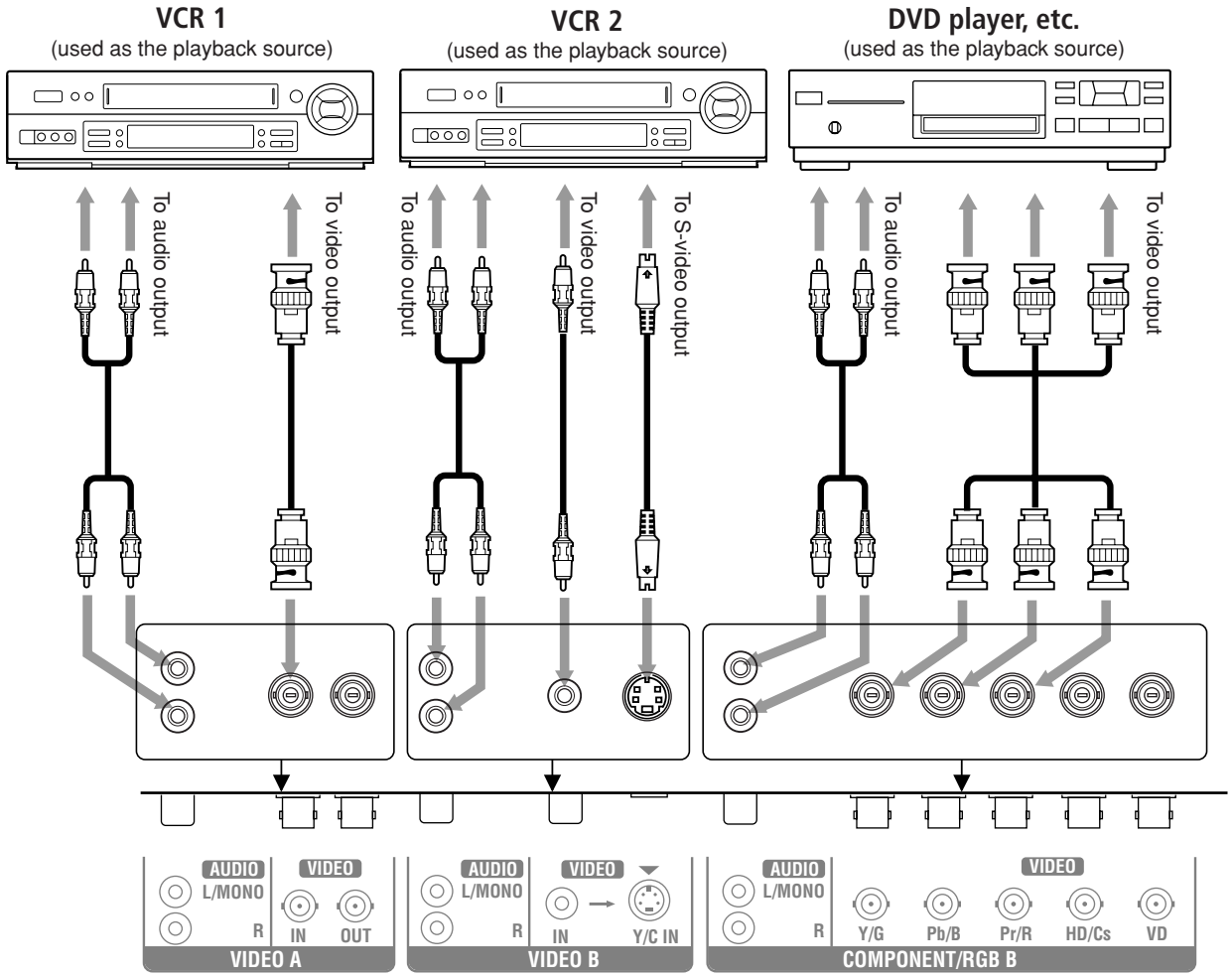
It is recommended to use the speaker unit—TS-C421SPG (not supplied) as the external speakers. You can also connect any speakers of the following specifications:

- Impedance: Between 6 Ω and 8 Ω
- Power handling capacity: More than 3 W

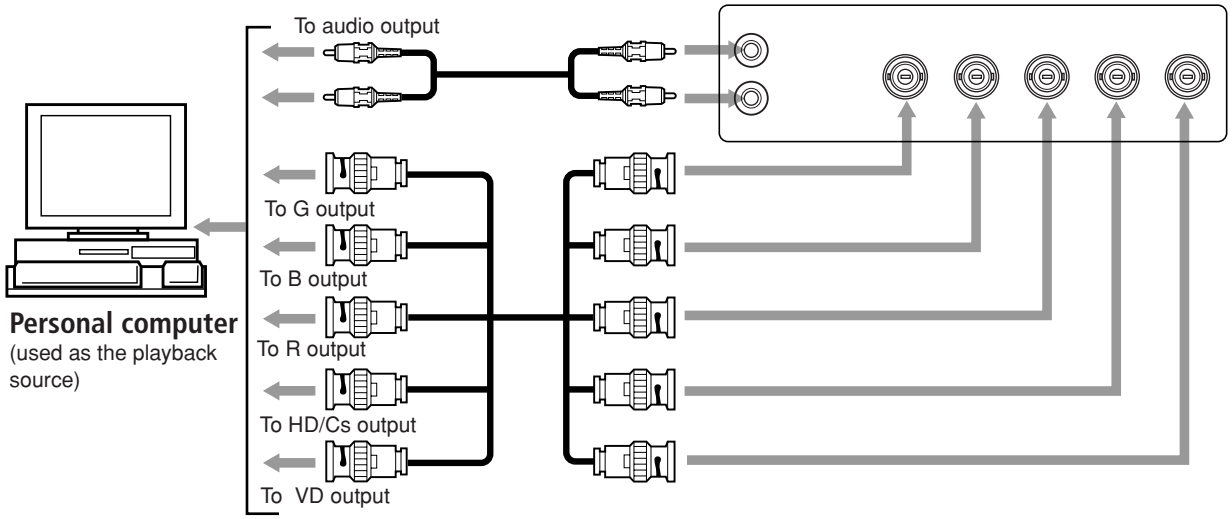
**Caution:**

- Do not short-circuit the ⊕ and ⊖ speaker cords each other. (Refer also to the instructions supplied with the speaker unit when connecting speakers.)

## AV connections




When connecting another PC to the COMPONENT/RGB B terminals, set the "RGB/COMPO." setting to "RGB" (see page 22).




**Notes:**

- You can connect another VCR or Monitor to the VIDEO A OUT terminal. However, when connecting a VCR to the VIDEO A terminals, do not connect both IN and OUT terminals to the same VCR.
- When connecting a VCR to the VIDEO B terminals, you can use either the video or S-video terminals. If the both terminals are used, S-video terminal will have priority.

## Connecting an external control unit

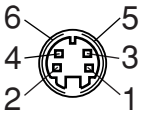
When connecting the external control unit to the MAKE terminal, you can operate the following functions through the MAKE terminal;

- Turn on or off the Monitor.
  Preparation: The POWER switch on the rear must be set to "I (on)" (so that the Monitor is in standby mode).
- Select the input.
  Preparation: "REMOTE SWITCH" should be set correctly to select your desired input (see page 27).

**Notes:**

- There is no remote control on/off switch. When a plug is inserted to the MAKE terminal, remote control through the external control unit is automatically activated.
- When the other REMOTE terminals are used at the same time, transmitted commands through the MAKE terminal have priority over those through the other terminals.

**• MAKE terminal**




| Pin number | Signal name |
|---|---|
| 1 | GND |
| 2 | GND |
| 3 | SW2 |
| 4 | SW1 |
| 5 | SW DET |
| 6 | GND |

Signals transmitted

**• External control unit**

| TTL level | |
|---|---|
| H: Power Off | L: Power On |
| H: Input A* | L: Input B* |
| H: Not connected | L: Connected |

* Input A and Input B will be determined by the "REMOTE SWITCH" setting.

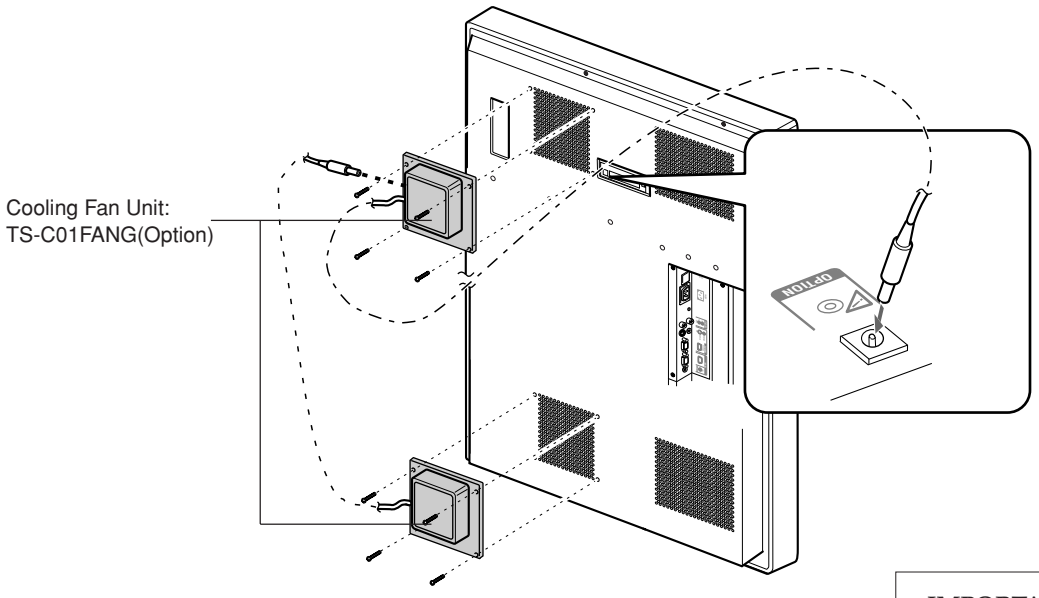
**IMPORTANT:**
External control unit is not commercially available in the market. When you need it, consult your dealer.

## Connecting the Cooling Fan Unit (not supplied)

When installing this Monitor vertically, it is required to attach the Cooling Fan Unit.

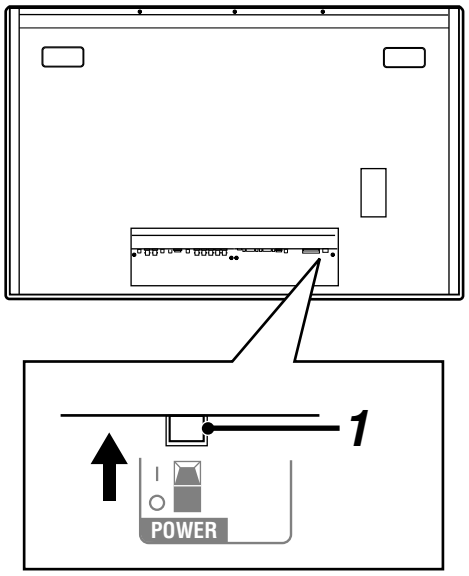
**Note:** If you install the Monitor in such a way not instructed in this manual (for example, installing it diagonally), the Cooling Fan Unit may not be able to cool down the internal heat enough to make the Monitor operate; therefore, reinstallation or another method for cooling will be required.

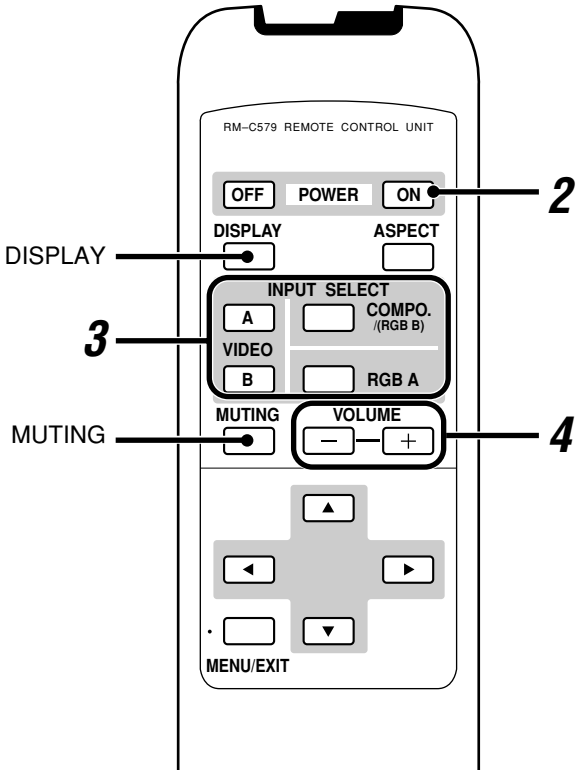
- For more detailed connection, refer to the manual supplied with the Cooling Fan Unit.




**IMPORTANT:**
When installing the Monitor vertically, consult your dealer.

Rear View




## Daily Operations

### 1 Turn on the main power.

Set POWER on the back of the Monitor to "I (on)".
The POWER lamp on the upper left of the front panel glows orange.

### 2 Turn on the power.

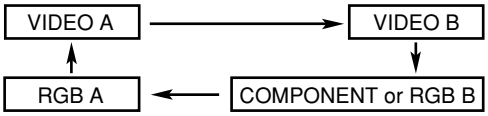
Press POWER ON on the remote control to turn the power on.
The POWER lamp changes to glow green.

- You can also use the POWER on the front panel (lower right) to turn on the Monitor.

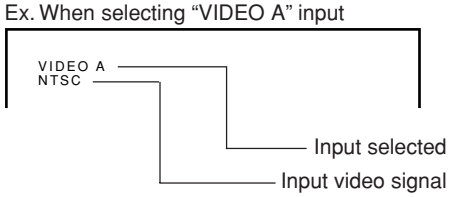
### 3 Select an input.

Select the desired input by pressing INPUT SELECT (VIDEO A, VIDEO B, COMPO./(RGB B) and RGB A).

- You can also select the input by pressing INPUT on the Monitor. Each time you press the button, the input mode changes in sequence.



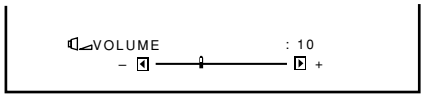

Ex. When selecting "VIDEO A" input




**Note:**

- To select "COMPONENT" or "RGB B," you need to set the "RGB/COMPO." setting correctly.

### 4 Adjust the volume.




**Note:**

- While no menu is displayed, you can adjust the volume by pressing ◄ / ► on the Monitor.

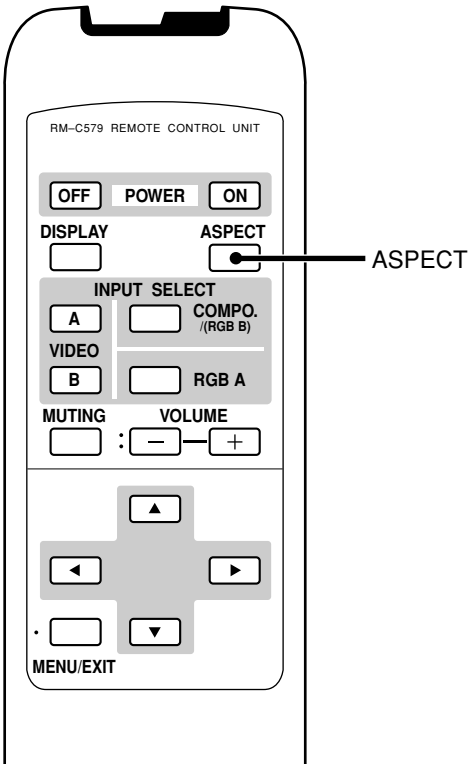
#### To turn off the volume immediately

**Press MUTING.**
"MUTING ON" is displayed, and the sound goes out.
Pressing the button again resumes the previous volume level.

#### To make the screen indication appear

**Press DISPLAY**.
The types of input and signal are indicated on the screen for about 3 seconds.
You can also make the screen indication appear using menus (page 24).

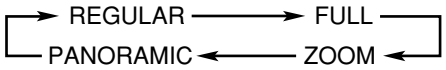
## Changing the Aspect Ratio



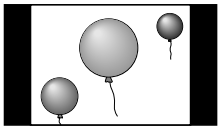

With this Monitor, you can select among three types of wide screens (FULL, ZOOM, and PANORAMIC) in addition to the REGULAR screen of conventional 4:3 aspect ratio.

### Press ASPECT to select the screen size.

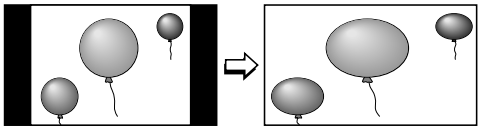
Each time you press the button, the screen size changes as follows:



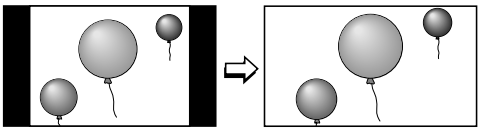

REGULAR: Displays at conventional 4:3 aspect ratio.



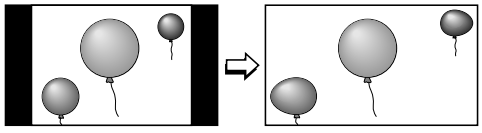
FULL: REGULAR size display is enlarged horizontally.



ZOOM: REGULAR size display is enlarged vertically and horizontally at the same ratio.



PANORAMIC: REGULAR size display is enlarged horizontally to the extent that the picture does not look abnormally.



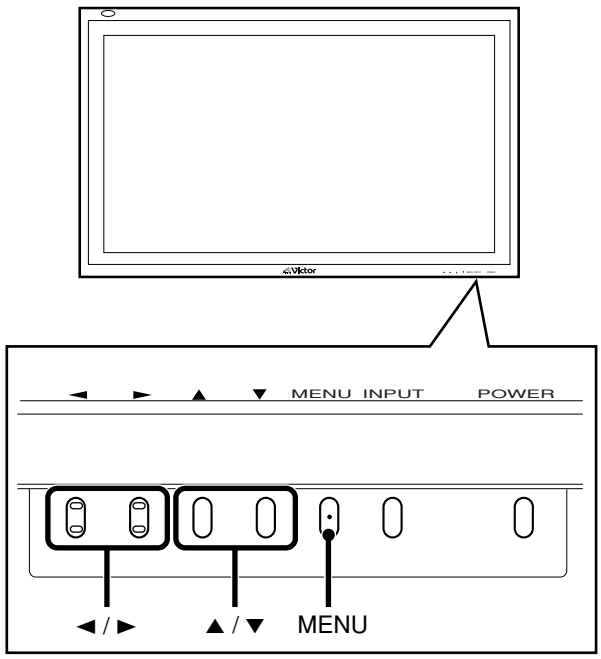
**Precautions for using the screen mode switching function**

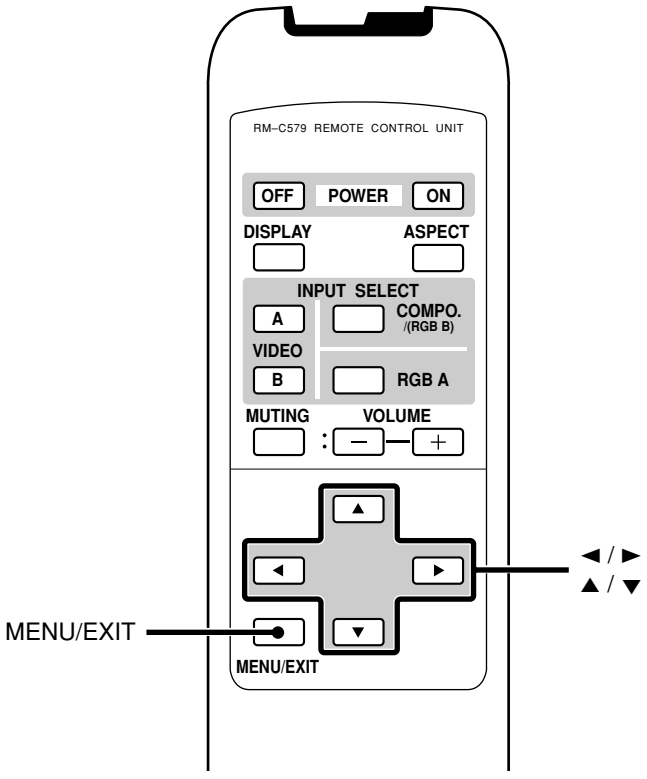
- This Monitor features a screen mode switching (aspect ratio change) function. If you select a mode different in aspect ratio from software such as TV programs, the picture may look different from original picture. Be aware of this point when you are selecting a screen mode.
- If you select a wide screen mode while viewing conventional video programs of the aspect ratio 4:3, some portions (edges) of the original picture will be cut off, or deformed. To enjoy the original picture as it is, select "REGULAR" while viewing such programs.
- If you place the Monitor in a tea room, hotel, etc. for business purposes or public viewing and modify the picture by using the screen mode switching (aspect ratio change) function, this could violate the copyright protected by the copyright law, which requires your special attention.
- If you make the screen very bright and watch programs selecting "REGULAR," for a long period of time, the Monitor screen may happen to be burned in. If this occurs, watching programs using a wide screen mode for a while will reduce the burn-in gradually.

**Notes:**

- When one of the following signals is being input, you cannot select the aspect ratio you want.
  - ■ *1080/50i, 1080/60i, 1035/60i or 720/60p signal through the COMPONENT/RGB B input terminals*
    You can only select FULL.
  - ■ *When any signal other than RGB15K-60 and RGB15K-50 through the RGB A or COMPONENT/RGB B input terminals*
    You can select only REGULAR and FULL.
- The aspect ratio can also be changed on the Function Selection Menu (page 21).

# Video Adjustments



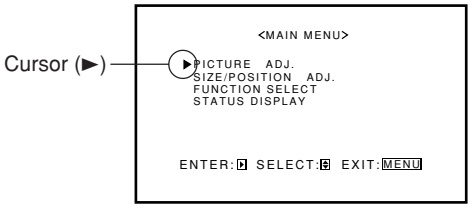




For video adjustments, use menus.
You can use the buttons either on the remote control or on Monitor for menu operations.
• Refer also to "Menu Classifications" on pages 34 and 36.

## Adjusting the Picture Quality

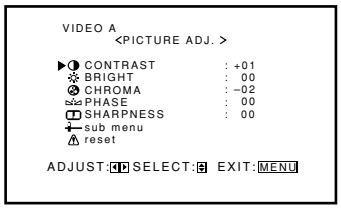
Picture quality can be set for each input mode.

### 1 Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.




### 2 Press ▲/▼ to move the cursor (►) to "PICTURE ADJ."

### 3 Press ► to display the Picture Adjustment Menu.




### 4 Press ▲/▼ to move the cursor (►) to the item you want to adjust.

| Item | Adjustment range | Standard (Reset) |
|---|---|---|
| CONTRAST | –20 to +20 | +10 |
| BRIGHT (brightness) | –20 to +20 | 0 |
| CHROMA*1 | –20 to +20 | 0 |
| PHASE*2 | –20 to +20 | 0 |
| SHARPNESS | –10 to +10 | 0 |
| sub menu | See "To make an adjustment while viewing the adjustment bar" on the next page. | |
| reset | See "To reset the adjustments" on the next page. | |

*1 Adjustable when viewing the NTSC or PAL signal, or component signal.
*2 Adjustable when viewing the NTSC signal or component signal.

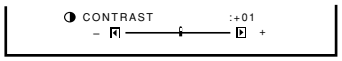
### 5 Press ◄/► to make adjustments.

### 6 Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.

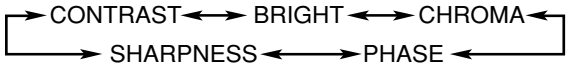
### To make an adjustment while viewing the adjustment bar

After step 3 on page 16, proceed as follows:

**1 Press ▲/▼ to move the cursor (►) to "sub menu."**
**2 Press ► to display the Sub Menu.**
The Sub Menu for CONTRAST appears on the screen.




**3 Press ▲/▼ to select the Sub Menu you want to adjust.**
Each time you press the button, the Sub Menu changes as follows:

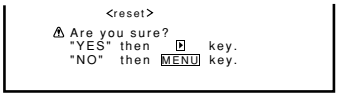



**4 Press ◄/► to adjust the selected item.**
**5 Repeat steps 3 and 4 to adjust the other items.**
**6 Press MENU/EXIT (or MENU on the Monitor) three times to exit from the menu operations.**

### To reset the adjustments

After step 3 on page 16, proceed as follows:

**1 Press ▲/▼ to move the cursor (►) to "reset."**
**2 Press ►.**
The confirmation screen appears.




**3 Press ► again to reset the adjustments.**

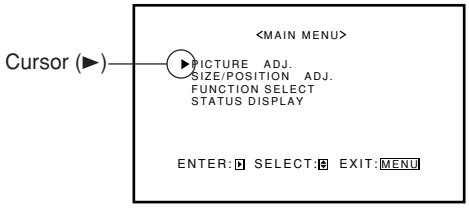
**To cancel the reset,** press MENU/EXIT (or MENU on the Monitor).

## Adjusting the Screen Size and Position

The screen size and position can be adjusted.
Adjusted settings can be stored for each signal type; therefore, when the same signal comes in, the stored settings are recalled.

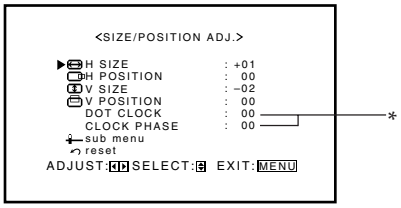
- When adjusting the size, the size cannot be adjusted proportionally, but can be enlarged rightward (or downward) only and reduced leftward (or upward) only. Therefore, it is necessary to adjust both the size and position alternately to adjust to the appropriate size.

### *1* Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.




### *2* Press ▲/▼ to move the cursor (►) to "SIZE/POSITION ADJ."

### *3* Press ► to display the Size/Position Adjustment Menu.




* Appearing and being adjustable only when you use RGB A or RGB B input.

### *4* Press ▲/▼ to move the cursor (►) to the item you want to adjust.

| Item | | Adjustment range |
|---|---|---|
| | H (horizontal) SIZE*1 | –40 to +40 |
| | H POSITION*1 | Varies depending on other settings |
| | V (vertical) SIZE*1 | –40 to +40 |
| | V POSITION*1 | Varies depending on other settings |
| | DOT CLOCK*2 | –10 to +10 |
| | CLOCK PHASE*2 | –20 to +20 |
| | sub menu | See "To make an adjustment while viewing the adjustment bar" on the next page. |
| | reset | See "To reset the adjustments" on the next page. |

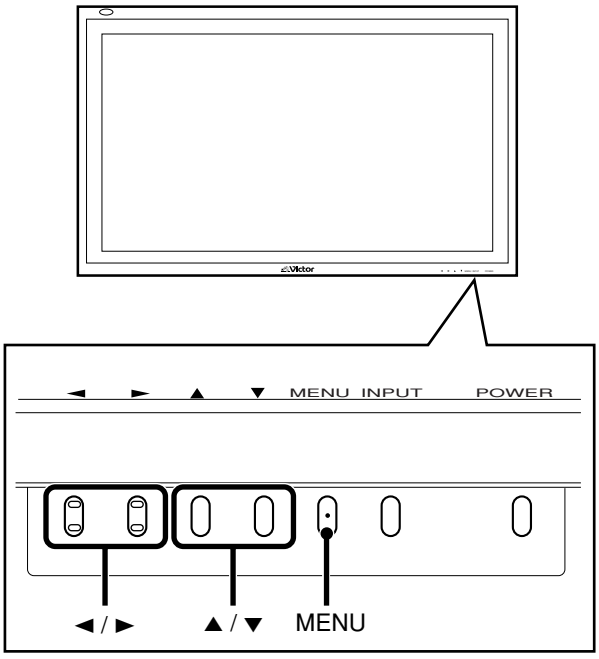
*1 Size and position adjustments are so related that if one is adjusted much, the other's adjustable range will be reduced.
*2 DOT CLOCK is the function to adjust the pixel sampling number of the A/D converter to the resolution (the vertical pixel number) of the input signal.
CLOCK PHASE is the function to adjust the sampling timing (phase) to the phase of the input signal.
You can use the two functions to reduce flickering and blurring on the screen when using the RGB A or RGB B input.

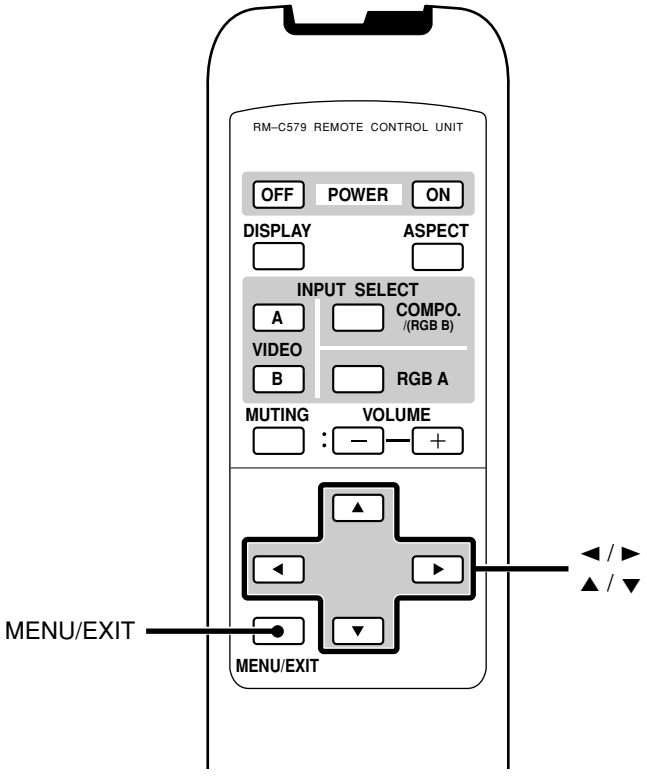
### *5* Press ◄/► to adjust the selected item.

**Note:**
- During size and position adjustments, the Monitor screen may be distorted. This is normal, but not a malfunction of the Monitor.

### *6* Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.

(To be continued on the next page)



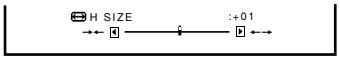

## To make an adjustment while viewing the adjustment bar

After step 3 on page 17, proceed as follows:

**1 Press ▲/▼ to move the cursor (►) to "sub menu."**

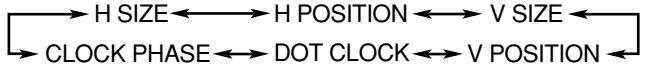
**2 Press ► to display the Sub Menu.**

The Sub Menu for H SIZE appears on the screen.




**3 Press ▲/▼ to select the Sub Menu you want to adjust.**

Each time you press the button, the Sub Menu changes as follows:




**4 Press ◄/► to adjust the selected item.**

**5 Repeat steps 3 and 4 to adjust the other items.**

**6 Press MENU/EXIT (or MENU on the Monitor) three times to exit from the menu operations.**

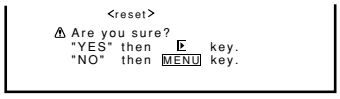
## To reset the adjustments

After step 3 on page 17, proceed as follows:

**1 Press ▲/▼ to move the cursor (►) to "reset."**

**2 Press ►.**

The confirmation screen appears.




**3 Press ► again to reset the adjustments.**

**To cancel the reset,** press MENU/EXIT (or MENU on the Monitor).

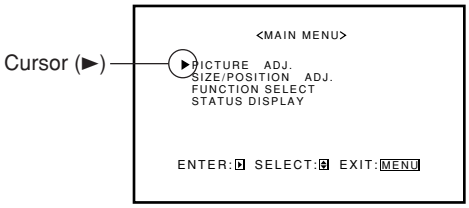
**Note:**

- Adjustment values for both horizontal and vertical sizes of the screen are so related that if one is adjusted up to near the maximum value, the attainable value of the other will be decreased.

## Adjusting the Color Temperature

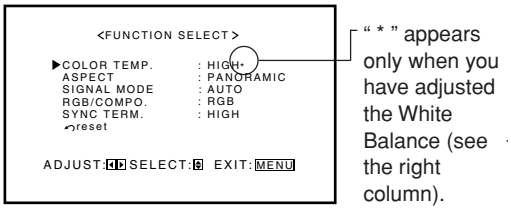
The adjusted setting applies to all inputs.

### 1 Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.




### 2 Press ▲/▼ to move the cursor (►) to "FUNCTION SELECT."

### 3 Press ► to display the Function Selection Menu.




" * " appears only when you have adjusted the White Balance (see the right column).

### 4 Press ▲/▼ to move the cursor (►) to "COLOR TEMP."

### 5 Press ◄/► to make an adjustment.

Each time you press the button, the color temperature alternates between "HIGH" and "LOW."

HIGH: To make the screen become bluish.

LOW: To make the screen become reddish.

### 6 Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.

**Note:**

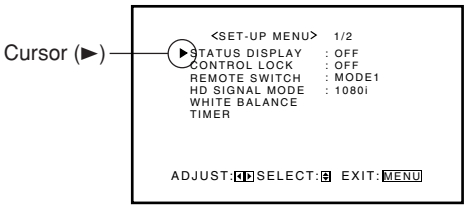
- To make a fine adjustment, adjust "WHITE BALANCE" (see the right column).

## Adjusting the White Balance

G GAIN, B GAIN and R GAIN can be finely adjusted separately for "HIGH" and "LOW" settings of the color temperature.

### 1 <u>On the remote control:</u> Press MENU/EXIT while holding VOLUME – to display the Setup Menu.

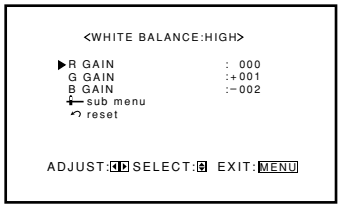
### <u>On the Monitor:</u> Press MENU while holding ◄ to display the Setup Menu.




### 2 Press ▲/▼ to move the cursor (►) to "WHITE BALANCE."

- The Setup Menu consists of two pages. If you keep pressing ▲/▼, you can move to the other page from the current page.

### 3 Press ► to display the White Balance Adjustment Menu.




### 4 Press ▲/▼ to move the cursor (►) to the item you want to adjust.

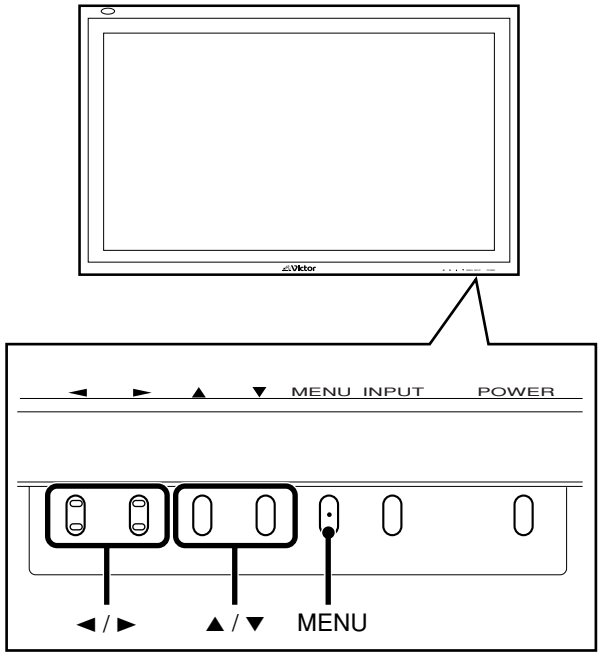
### 5 Press ◄/► to adjust the selected item.

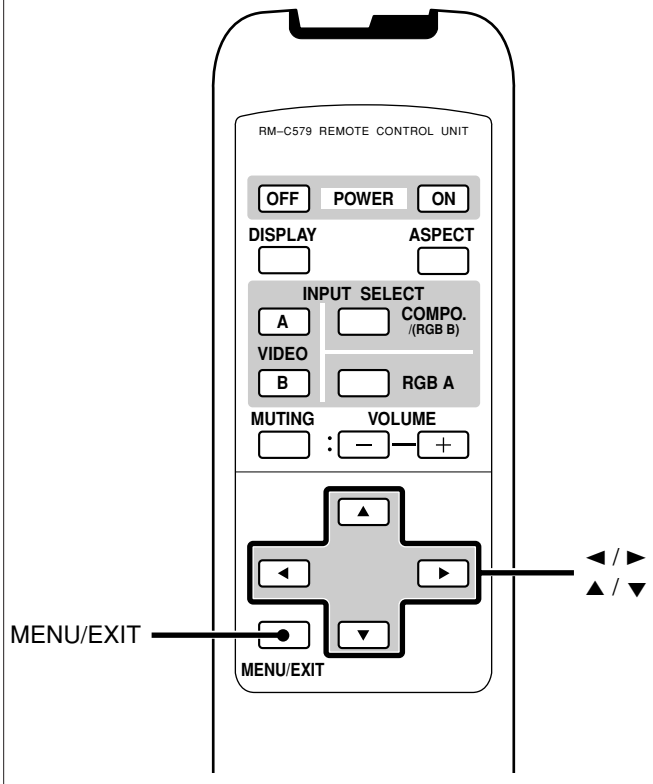
### 6 Repeat steps 4 and 5 to adjust the other items.

### 7 Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.

**Notes:**

- Adjustable range will vary among the Monitors.
- "MAX" may appear soon after you begin adjustment. This is normal but not a malfunction.

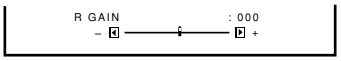


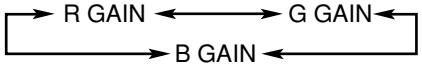

## To make an adjustment while viewing the adjustment bars

After step 3 on page 19, proceed as follows:

**1 Press ▲/▼ to move the cursor (►) to "sub menu."**
**2 Press ► to display the Sub Menu.**
The Sub Menu for R GAIN appears on the screen.




**3 Press ▲/▼ to select the Sub Menu you want to adjust.**
Each time you press the button, the Sub Menu changes as follows:

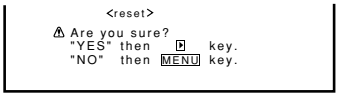



**4 Press ◄/► to adjust the selected item.**
**5 Repeat steps 3 and 4 to adjust the other items.**
**6 Press MENU/EXIT (or MENU on the Monitor) three times to exit from the menu operations.**

## To reset the adjustments

After step 3 on page 19, proceed as follows:

**1 Press ▲/▼ to move the cursor (►) to "reset."**
**2 Press ►.**
The confirmation screen appears.




**3 Press ► again to reset the adjustments.**

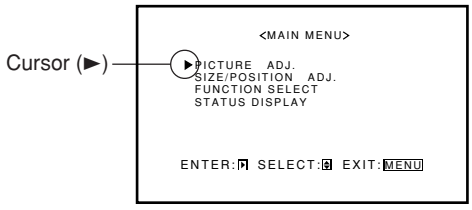
**To cancel the reset,** press MENU/EXIT (or MENU on the Monitor).

## Changing the Aspect Ratio

The setting adjusted applies to all inputs.

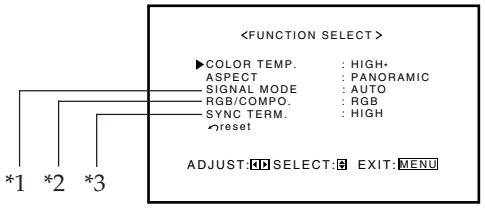
- You can change the aspect ratio by pressing ASPECT. (See page 15.)

### 1 Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.




### 2 Press ▲/▼ to move the cursor (►) to "FUNCTION SELECT."

### 3 Press ► to display the Function Selection Menu.




*1 "SIGNAL MODE" appears only when VIDEO A, VIDEO B, or COMPONENT input is selected.

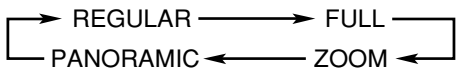
*2 "RGB/COMPO." appears only when the RGB B or COMPONENT input is selected.

*3 "SYNC TERM." appears only when the RGB B input is selected.

### 4 Press ▲/▼ to move the cursor (►) to "ASPECT."

### 5 Press ◄/► to select an aspect ratio you want.

Each time you press the button, the aspect ratio changes as follows:




* For detailed information on these aspect ratios, see page 15.

### 6 Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.

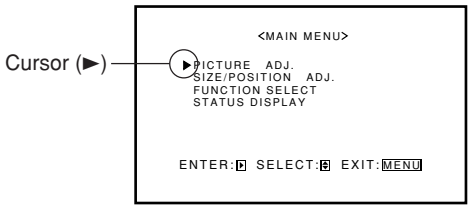
**Note:**

- When one of the following signals is being input, you cannot select the aspect ratio you want.
  - ■ *1080/50i, 1080/60i, 1035/60i or 720/60p signal through the COMPONENT/RGB B input terminals*
    Aspect ratio is fixed to FULL ("ASPECT" will not appear on the display).
  - ■ *When any signal other than RGB15K-60 and RGB15K-50 through the RGB A or COMPONENT/RGB B input terminals*
    You can select only REGULAR and FULL.

## Setting the Receivable Signal Types

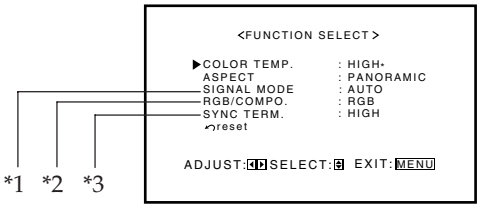
You can set the receivable signal types. Normally, select "AUTO."
A common setting will apply to both the VIDEO A input and the VIDEO B input, and a different setting will apply to the COMPONENT input.

### 1 Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.




### 2 Press ▲/▼ to move the cursor (►) to "FUNCTION SELECT."

### 3 Press ► to display the Function Selection Menu.




*1 "SIGNAL MODE" appears only when VIDEO A, VIDEO B, or COMPONENT input is selected.

*2 "RGB/COMPO." appears only when the RGB B or COMPONENT input is selected.

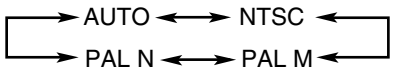
*3 "SYNC TERM." appears only when the RGB B input is selected.

### 4 Press ▲/▼ to move the cursor (►) to "SIGNAL MODE."

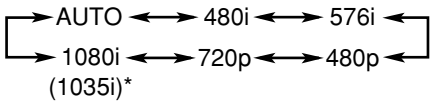
### 5 Press ◄/► to select the receivable video signal type.

Each time you press the button, the receivable video signal type changes as follows:

- When VIDEO A or VIDEO B input is selected:

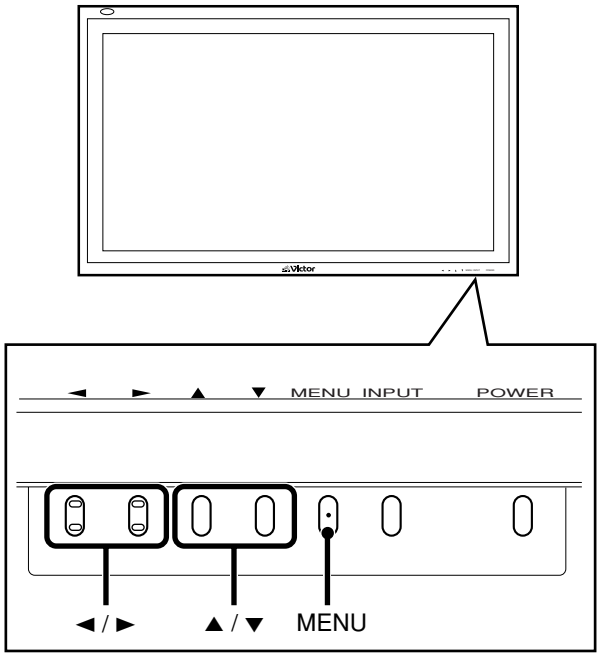


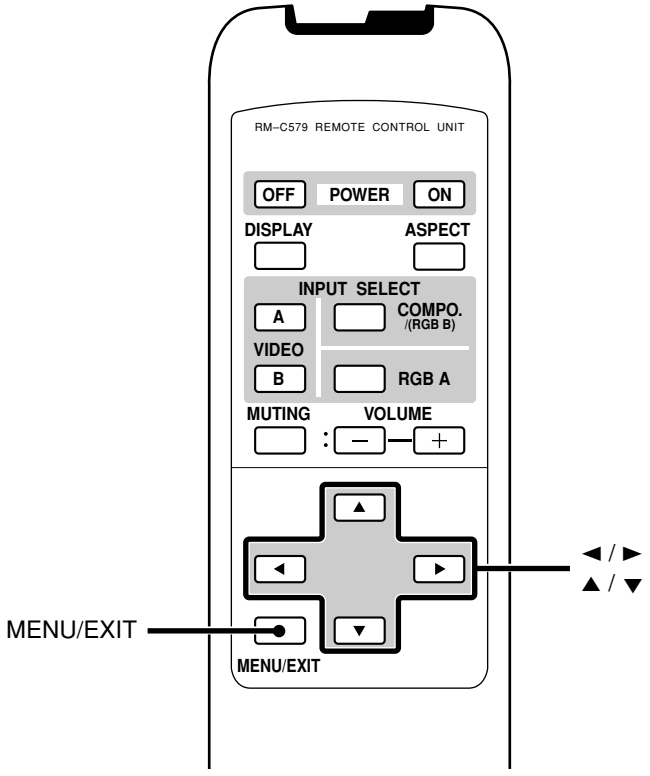

- When COMPONENT input is selected:




* Changes according to the "HD SIGNAL MODE" setting (see page 27).

### 6 Press MENU/EXIT (or MENU on the Monitor) twice to exit the menu operations.



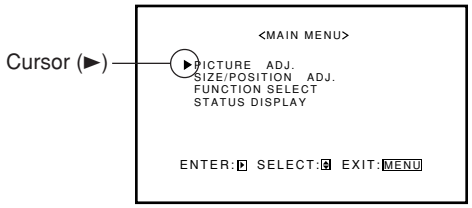




## Setting the COMPONENT/RGB B Input

After connecting the playback device such as a PC or a DVD player to the COMPONENT/RGB B terminals, you have to specify which type of signal comes into this terminal—RGB or component signals.

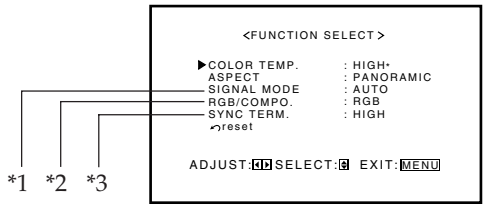
- Without setting "RGB/COMPO." correctly, you cannot show any picture though you select the COMPONENT or RGB B input.

### *1* Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.




### *2* Press ▲/▼ to move the cursor (►) to "FUNCTION SELECT."

### *3* Press ► to display the Function Selection Menu.




*1 "SIGNAL MODE" appears only when VIDEO A, VIDEO B, or COMPONENT input is selected.

*2 "RGB/COMPO." appears only when the RGB B or COMPONENT input is selected.

*3 "SYNC TERM." appears only when the RGB B input is selected.

### *4* Press ▲/▼ to move the cursor (►) to "RGB/COMPO."

### *5* Press ◄/► to select the type of signal.

Each time you press the button, the type of signal accepted alternates between "RGB" and "COMPO."

RGB: When connecting the playback device such as a PC, which can emit the RGB signals.

COMPO.: When connecting the playback device such as a DVD player, which can emit the component signals.

### *6* Press MENU/EXIT (or MENU on the Monitor) twice to exit the menu operations.

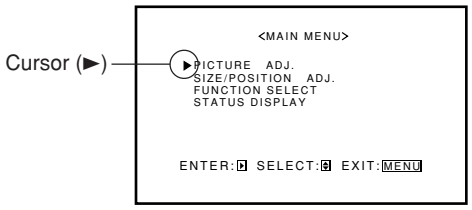
## Changing the Resistance of the RGB B Input Terminals

You can set the resistance of the two of the RGB B input terminals to either HIGH (1 kΩ) or LOW (75 Ω):

- HD/Cs (Horizontal sync/Composite) terminal
- VD (Vertical sync) terminal.

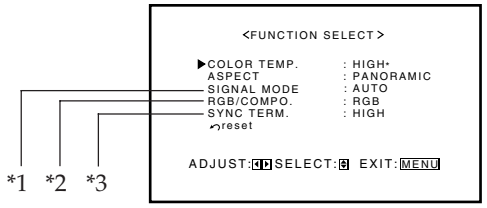
HIGH is the normal setting. Change the setting to LOW when you use a long connecting cord and the picture flickers and blurs on the screen.

### 1 Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.




### 2 Press ▲/▼ to move the cursor (►) to "FUNCTION SELECT."

### 3 Press ► to display the Function Selection Menu.




*1 "SIGNAL MODE" appears only when VIDEO A, VIDEO B, or COMPONENT input is selected.

*2 "RGB/COMPO." appears only when the RGB B or COMPONENT input is selected.

*3 "SYNC TERM." appears only when the RGB B input is selected.

### 4 Press ▲/▼ to move the cursor (►) to "SYNC TERM."

### 5 Press ◄/► to select the terminal resistance.

Each time you press the button, the resistance alternates between "HIGH" and "LOW."

HIGH: Initial setting. Normally select this.

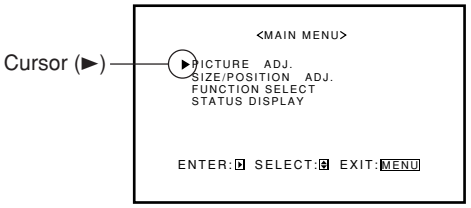
LOW: When using a long connecting cord and the picture flickering and blurring on the screen.

### 6 Press MENU/EXIT (or MENU on the Monitor) twice to exit the menu operations.

## Resetting the Function Selection Menu Settings

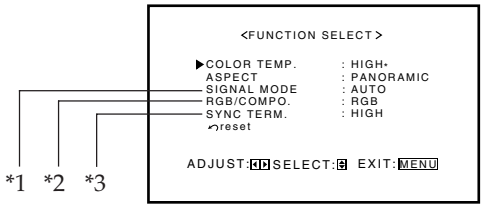
You can reset all the Function Selection Menu settings at a time.

### 1 Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.




### 2 Press ▲/▼ to move the cursor (►) to "FUNCTION SELECT."

### 3 Press ► to display the Function Selection Menu.




*1 "SIGNAL MODE" appears only when VIDEO A, VIDEO B, or COMPONENT input is selected.

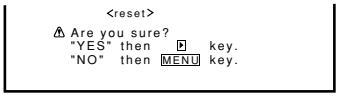
*2 "RGB/COMPO." appears only when the RGB B or COMPONENT input is selected.

*3 "SYNC TERM." appears only when the RGB B input is selected.

### 4 Press ▲/▼ to move the cursor (►) to "reset."

### 5 Press ►.

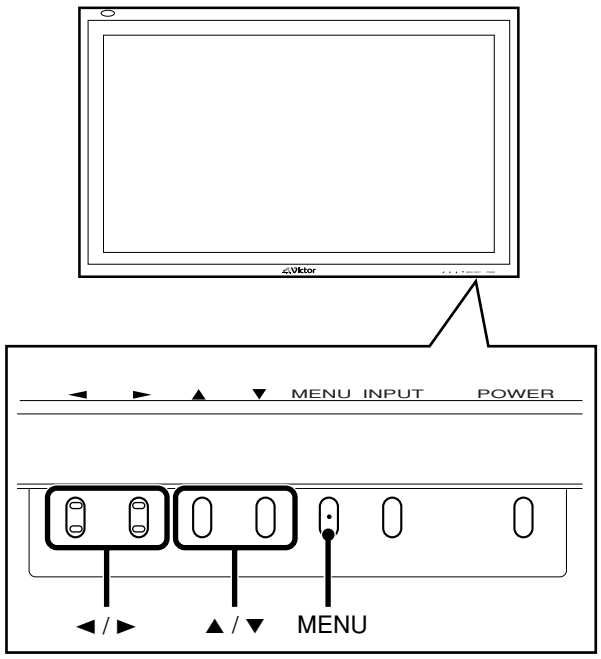
The confirmation screen appears.

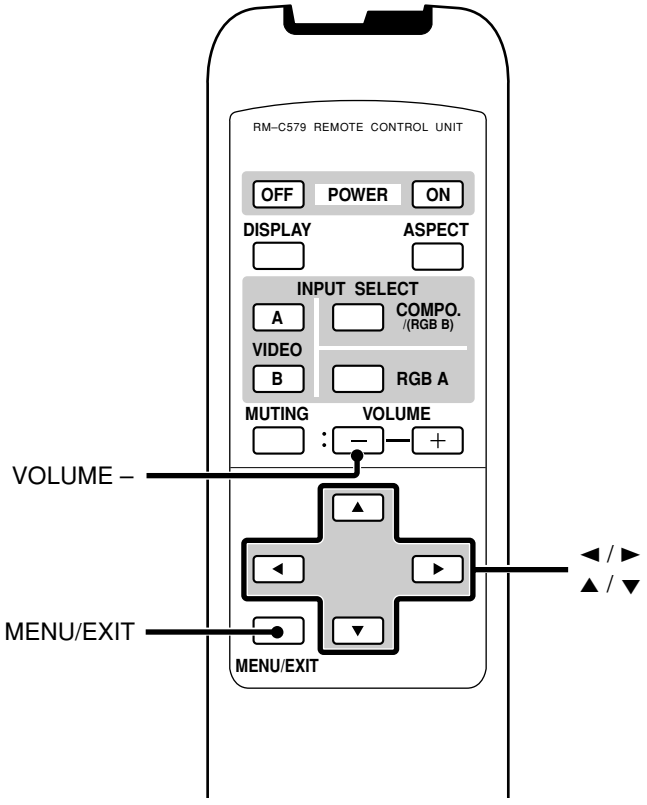



### 6 Press ► again to reset the adjustments.

**To cancel the reset,** press MENU/EXIT (or MENU on the Monitor).

# Other Convenient Functions



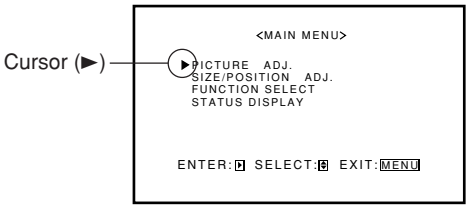




To set the other convenient functions, use menus.
You can use the buttons either on the remote control or on Monitor for menu operations.
• Refer also to "Menu Classifications" on pages 34 and 36.

## Showing On-screen Display

The input mode and signal type will be indicated on the screen.
• The following procedure can be done by using the buttons on the Monitor. You can also show these information by pressing DISPLAY on the remote control. (See page 14.)

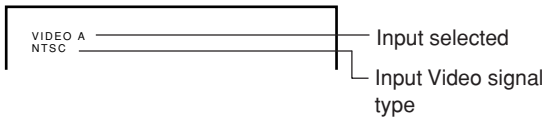
### *1* Press MENU (or MENU/EXIT on the remote control) to display the Main Menu.



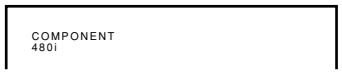

### *2* Press ▲/▼ to move the cursor (►) to "STATUS DISPLAY."

### *3* Press ► to display the current input terminal and received signal type.

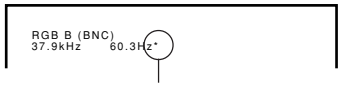
Ex. When selecting "VIDEO A" input




Ex. When selecting "COMPONENT" input




Ex. When selecting "RGB A" or "RGB B" input




When the signal being input is a preset video mode, an "*" will be shown after the frequency.

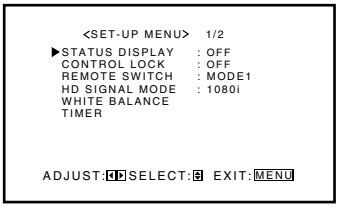
**Note:**
• If you want to make these information appear automatically when you change the input mode, see "Showing the On-screen When Changing the Input Mode" on page 25.

## Confirming the Use Time and Model Name

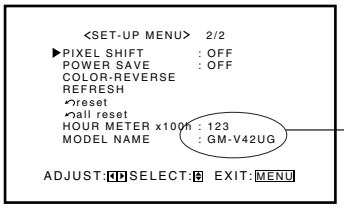
You can confirm the hours of use and the model name on the Setup Menu.
This may be necessary when you ask for any service.

### 1 On the remote control:
**Press MENU/EXIT while holding VOLUME – to display the Setup Menu.**

**On the Monitor:**
**Press MENU while holding ◄ to display the Setup Menu.**




### 2 Keep pressing ▲/▼ until the second page of the Setup Menu appears.
- The Setup Menu consists of two pages. If you keep pressing ▲/▼, you can move to the other page from the current page.




### 3 Confirm the hour of use and model name.
- The displayed value for the hours of use is divided by 100. To calculate the actual hours of use, multiply the displayed value by 100.
- The model name shown on the Setup Menu is an example.
  If you have a different model, its correct model name will be shown (GM-V42UB).

### 4 Press MENU/EXIT (or MENU on the Monitor) once to exit from the menu operations.

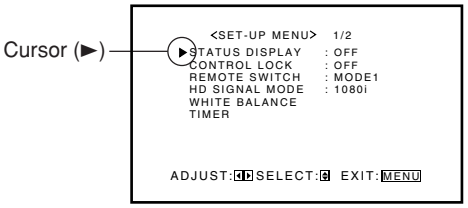
**Notes:**
- The value for the hours of use is added by one hour unit. If you use the monitor within one hour, it will not be added to the hours of use.
- The period when the monitor is on standby (the power lamp glows orange) will not be added to the hours of use.

## Showing the On-screen When Changing the Input Mode

With this function, you can see the selected input mode and signal type when changing the input mode.

### 1 On the remote control:
**Press MENU/EXIT while holding VOLUME – to display the Setup Menu.**

**On the Monitor:**
**Press MENU while holding ◄ to display the Setup Menu.**

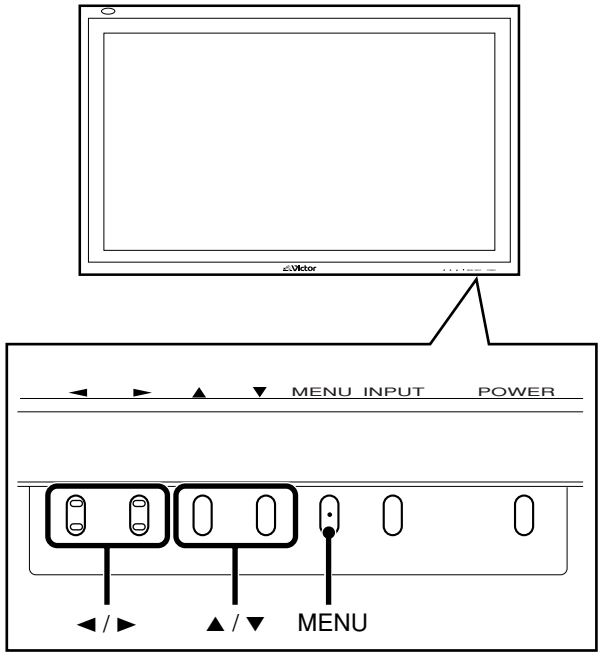


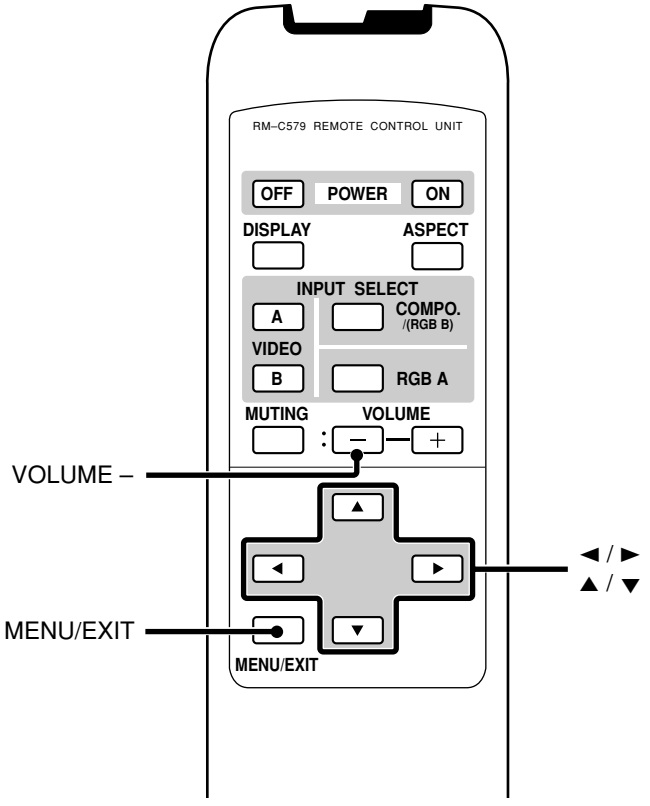

### 2 Press ▲/▼ to move the cursor (►) to "STATUS DISPLAY."
- The Setup Menu consists of two pages. If you keep pressing ▲/▼, you can move to the other page from the current page.

### 3 Press ◄/► to select the desired setting.
Each time you press the button, the Status Display function alternates between "ON" and "OFF."

**To cancel the Status Display function,** select "OFF."

### 4 Press MENU/EXIT (or MENU on the Monitor) once to exit from the menu operations.



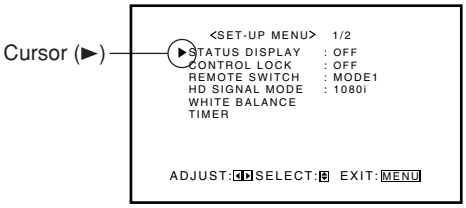




## Prohibiting the Monitor's Button Operations

This function allows you to prohibit the button operations on the Monitor to prevent malfunction or avoid tampering.

### 1 On the remote control:
**Press MENU/EXIT while holding VOLUME – to display the Setup Menu.**

**On the Monitor:**
**Press MENU while holding ◄ to display the Setup Menu.**




### 2 Press ▲/▼ to move the cursor (►) to "CONTROL LOCK."
- The Setup Menu consists of two pages. If you keep pressing ▲/▼, you can move to the other page from the current page.

### 3 Press ◄/► to select the desired setting.
Each time you press the button, the Control Lock function alternates between "ON" and "OFF."

**To cancel the Control Lock function,** select "OFF."

### 4 Press MENU/EXIT (or MENU on the Monitor) once to exit from the menu operations.

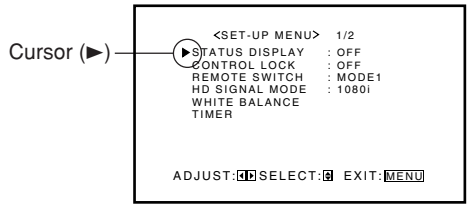
**Note:**
- Even when the Control Lock function is in use, the following operations are possible:
  – Operation to cancel the Control Lock function
  – All operations from the remote control

## Setting the Remote-Controllable Input

When connecting the external control unit to the REMOTE MAKE terminal, you need to set the desired input to use, which you can select from the connected external control unit.

### 1 On the remote control:
**Press MENU/EXIT while holding VOLUME – to display the Setup Menu.**

**On the Monitor:**
**Press MENU while holding ◄ to display the Setup Menu.**




### 2 Press ▲/▼ to move the cursor (►) to "REMOTE SWITCH."
- The Setup Menu consists of two pages. If you keep pressing ▲/▼, you can move to the other page from the current page.

### 3 Press ◄/► to select the desired setting.
Each time you press the button, the Remote Switch Mode changes as follows:

MODE1: Input alternates between "VIDEO A" and "VIDEO B" when controlled from the external control unit.

MODE2: Input alternates between "VIDEO A" and "RGB B/COMPO." when controlled from the external control unit.

MODE3: Input alternates between "VIDEO A" and "RGB A" when controlled from the external control unit.

MODE4: Input alternates between "VIDEO B" and "RGB B/COMPO." when controlled from the external control unit.

MODE5: Input alternates between "VIDEO B" and "RGB A" when controlled from the external control unit.

MODE6: Input alternates between "RGB B/COMPO." and "RGB A" when controlled from the external control unit.

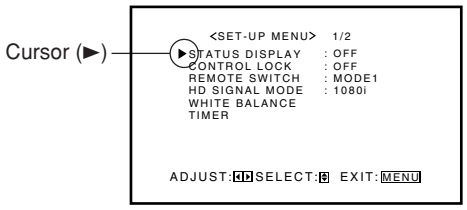
### 4 Press MENU/EXIT (or MENU on the Monitor) once to exit from the menu operations.

## Setting the High-Definition Signal Types

You can select one of the High-Definition (HD) signal types through the COMPONENT/RGB B terminals — 1080i or 1035i. Normally set it to "1080i."
- Without setting "RGB/COMPO." correctly, you cannot show any picture though you select the COMPONENT input (see page 22).

### 1 On the remote control:
**Press MENU/EXIT while holding VOLUME – to display the Setup Menu.**

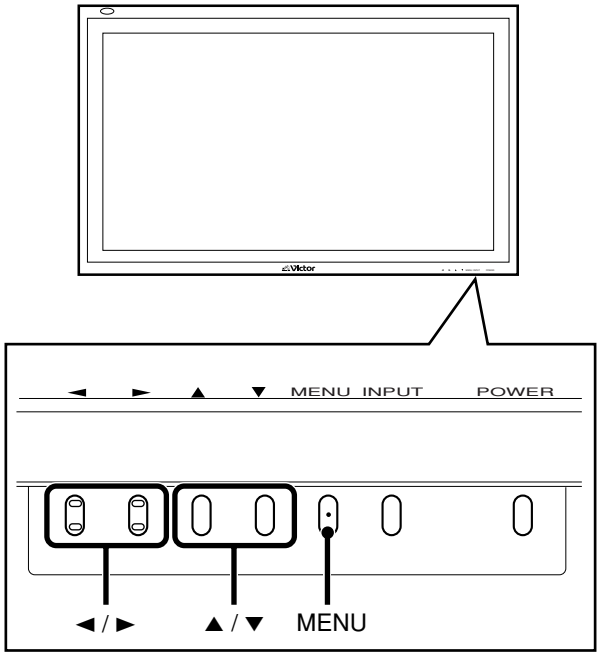
**On the Monitor:**
**Press MENU while holding ◄ to display the Setup Menu.**

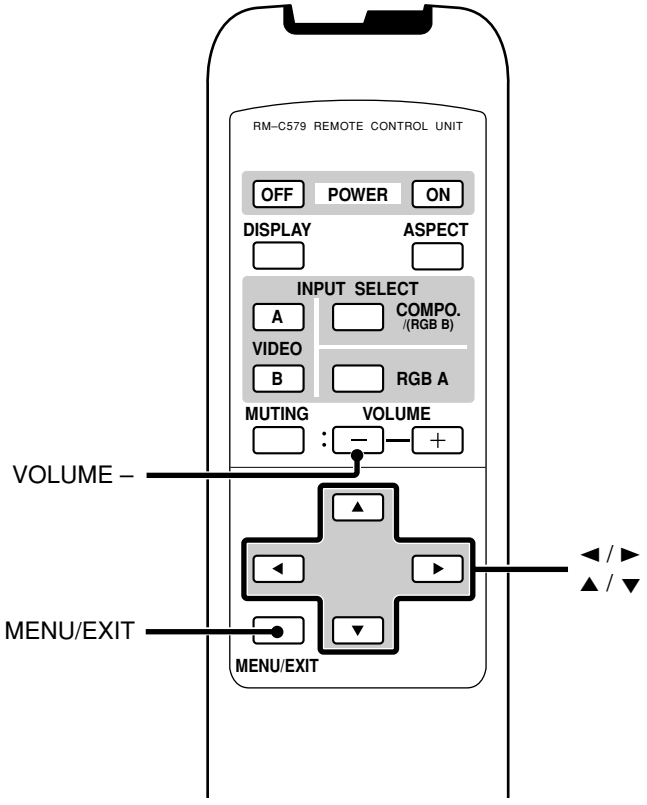



### 2 Press ▲/▼ to move the cursor (►) to "HD SIGNAL MODE."
- The Setup Menu consists of two pages. If you keep pressing ▲/▼, you can move to the other page from the current page.

### 3 Press ◄/► to select the desired setting.
Each time you press the button, the HD signal type alternates between "1080i" and "1035i."
- You can select either "1080i" and "1035i" according to the HD signal you input — whichever gives you proportionally shaped pictures.

### 4 Press MENU/EXIT (or MENU on the Monitor) once to exit from the menu operations.




## Setting the Clock and the Power On/Off Timer

You can turn the Monitor on and off automatically with the Power On/Off timer.

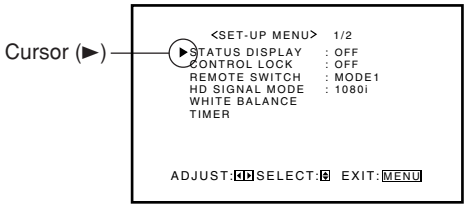
- Since you cannot use the timer functions without setting the clock, set the clock at first.

### • Setting the Clock

You can also adjust the clock with the following procedure.

**1** **<u>On the remote control:</u>**
**Press MENU/EXIT while holding VOLUME – to display the Setup Menu.**

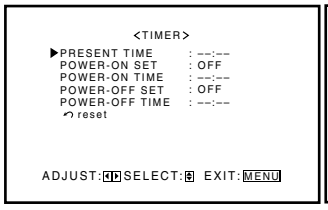
**<u>On the Monitor:</u>**
**Press MENU while holding ◄ to display the Setup Menu.**



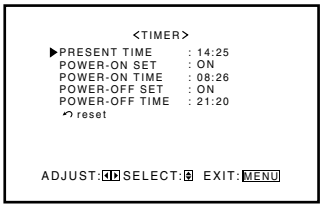

**2** **Press ▲/▼ to move the cursor (►) to "TIMER," then press ► to display the Timer Menu.**

- The Setup Menu consists of two pages. If you keep pressing ▲/▼, you can move to the other page from the current page.

Before the clock setting




After the clock setting




**3** **Press ▲/▼ to move the cursor (►) to "PRESENT TIME," then press ►.**

**4** **Press ▲/▼ to move the cursor (►) to "HOURS," then press ◄/► repeatedly to adjust the hour (24 hour clock).**

**5** **Press ▲/▼ to move the cursor (►) to "MINUTES," then press ◄/► repeatedly to adjust the minute.**

**6** **Press MENU/EXIT (or MENU on the Monitor) three times to exit from the menu operations.**

### • Using the Power On/Off Timer

Select the item you want to set in step 3 in "Setting the Clock" (page 28) and follow the instructions below.

**POWER-ON SET**

You can activate/deactivate the Power-On Timer.

**Press ◄/► to select "ON" or "OFF."**

ON: The Monitor automatically turns on at the time set in "POWER-ON TIME."

OFF: The Power-On Timer is deactivated.

**POWER-ON TIME**

You can adjust the time to turn on the Monitor.

**Set the hour and minute following steps 4 to 6 in "Setting the Clock" (page 28).**

**POWER-OFF SET**

You can activate/deactivate the Power-Off Timer.

**Press ◄/► to select "ON" or "OFF."**

ON: The Monitor automatically turns off at the time set in "POWER-OFF TIME."

OFF: The Power-Off Timer is deactivated.

**POWER-OFF TIME**

You can adjust the time to turn off the Monitor.

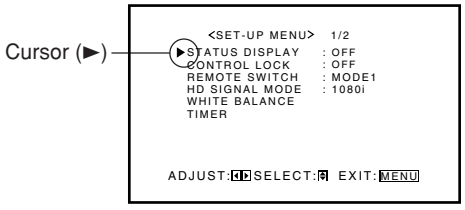
**Set the hour and minute following steps 4 to 6 in "Setting the Clock" (page 28).**

## Using the Pixel Shift Function

This function periodically shift the position (pixels) of the displayed picture on the screen so that you can avoid the screen from being burned in.

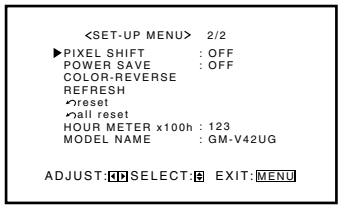
### 1 On the remote control:
**Press MENU/EXIT while holding VOLUME – to display the Setup Menu.**

### On the Monitor:
**Press MENU while holding ◄ to display the Setup Menu.**




### 2 Press ▲/▼ to move the cursor (►) to "PIXEL SHIFT" (on the second page).

• The Setup Menu consists of two pages. If you keep pressing ▲/▼, you can move to the other page from the current page.




### 3 Press ◄/► to select the desired setting.

Each time you press the button, the Pixel Shift function alternates between "ON" and "OFF."

**To cancel the Pixel Shift function,** select "OFF."

### 4 Press MENU/EXIT (or MENU on the Monitor) once to exit from the menu operations.

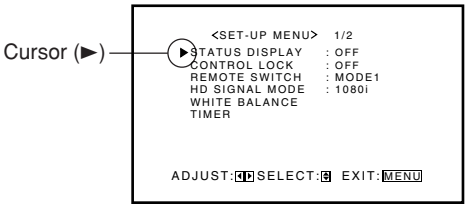
## Using the Power Save Function

You can use this function to reduce the electrical consumption and to extend the lifetime of the Monitor's screen.

• The brightness of the screen will be reduced.

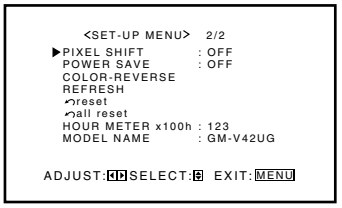
### 1 On the remote control:
**Press MENU/EXIT while holding VOLUME – to display the Setup Menu.**

### On the Monitor:
**Press MENU while holding ◄ to display the Setup Menu.**




### 2 Press ▲/▼ to move the cursor (►) to "POWER SAVE" (on the second page).

• The Setup Menu consists of two pages. If you keep pressing ▲/▼, you can move to the other page from the current page.




### 3 Press ◄/► to select the desired setting.

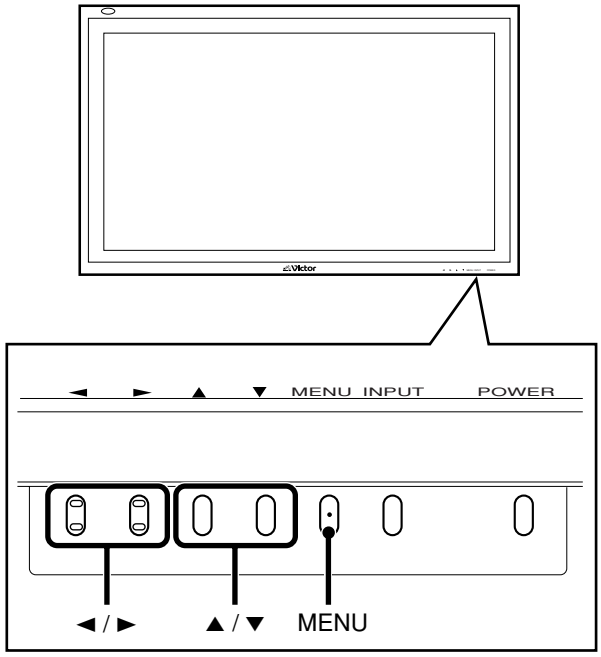
SAVE1: The screen gets dim.

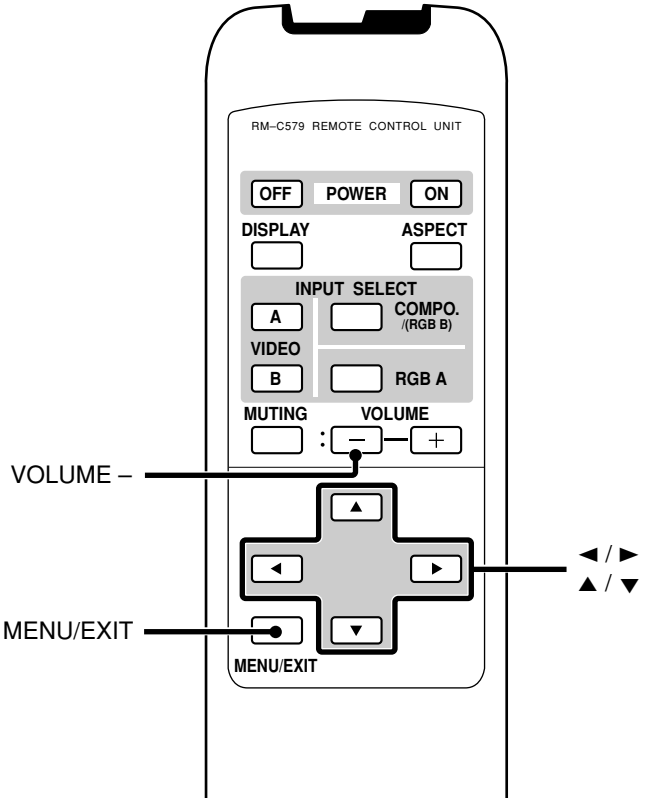
SAVE2: The screen gets dimmer.

OFF: The Power Save function is deactivate.

**To cancel the Power Save function,** select "OFF."

### 4 Press MENU/EXIT (or MENU on the Monitor) once to exit from the menu operations.




## Preventing the Afterimage Effect

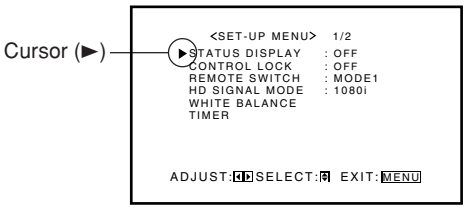
After showing the same still picture on the screen, reverse the color on the screen using this function so that you can avoid the screen from being burned in with the still picture.
You can activate/deactivate the function with the Color-Reverse On/Off Timer.

### 1 On the remote control:

**Press MENU/EXIT while holding VOLUME – to display the Setup Menu.**

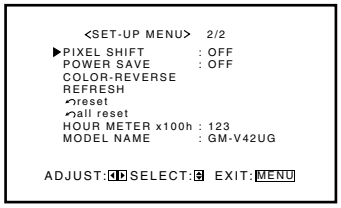
### On the Monitor:

**Press MENU while holding ◄ to display the Setup Menu.**




### 2 Press ▲/▼ to move the cursor (►) to "COLOR-REVERSE" (on the second page), then press ►.

- The Setup Menu consists of two pages. If you keep pressing ▲/▼, you can move to the other page from the current page.




### 3 Press ▲/▼ to select the item you want to set and set the item as follows.

**COLOR-REVERSE**

You can activate/deactivate the function manually.

**Press ◄/► to select the desired setting.**

- ON: The function is activated immediately after exiting the menu operations.
- OFF: The function is deactivated.
- TIMER: Select this when you use the Color-Reverse On/Off Timer.

**Note:**

- Set the clock (see page 28) and select "TIMER," before using the Color-Reverse On/Off Timer.

**START SET**

You can activate/deactivate the Color-Reverse On Timer.

**Press ◄/► to select "ON" or "OFF."**

- ON: The function is automatically activated at the time set in "START TIME."
- OFF: The Color-Reverse On Timer is deactivated.

START TIME

You can adjust the time to activate the function.

- **Set the hour and minute following steps 4 to 6 in "Setting the Clock" (page 28).**

END SET

You can activate/deactivate the Color-Reverse Off Timer.

- **Press ◄/► to select "ON" or "OFF."**
  - ON: The function is automatically deactivated at the time set in "END TIME."
  - OFF: The Color-Reverse Off Timer is deactivated.

END TIME

You can adjust the time to deactivate the function.

- **Set the hour and minute following steps 4 to 6 in "Setting the Clock" (page 28).**

### 4 Press MENU/EXIT (or MENU on the Monitor) repeatedly to exit from the menu operations.

**To cancel the Color-Reverse function immediately**

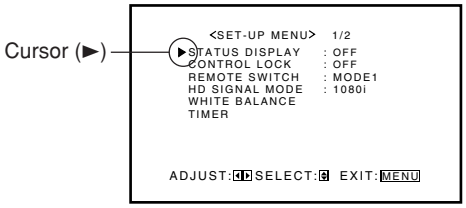
Repeat steps ***1*** to ***3***, then select "OFF" in "COLOR-REVERSE" by pressing ◄/►.

## Refreshing the Screen

After the power is turned off, a whitish image may be left on the screen. In that case, leave the monitor in a white back state for a while, and the image will disappear.

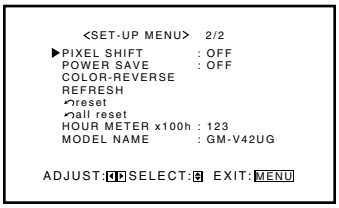
### 1 On the remote control:
### Press MENU/EXIT while holding VOLUME – to display the Setup Menu.

### On the Monitor:
### Press MENU while holding ◄ to display the Setup Menu.




### 2 Press ▲/▼ to move the cursor (►) to "REFRESH" (on the second page) then press ►.

- The Setup Menu consists of two pages. If you keep pressing ▲/▼, you can move to the other page from the current page.




### 3 Press ▲/▼ to select the item you want to set and set the item as follows.

REFRESH

You can activate/deactivate the function manually.

- **Press ◄/► to select the desired setting.**
  - ON: The function is activated immediately after exiting the menu operations.
  - OFF: The function is deactivated.
  - TIMER: Select this when you use the Refresh On/Off Timer.

**Note:**

- Set the clock (see page 28) and select "TIMER," before using the Refresh On/Off Timer.

START SET

You can activate/deactivate the Refresh On Timer.

- **Press ◄/► to select "ON" or "OFF."**
  - ON: The function is automatically activated at the time set in "START TIME."
  - OFF: The Refresh On Timer is deactivated.

START TIME

You can adjust the time to activate the function.

- **Set the hour and minute following steps 4 to 6 in "Setting the Clock" (page 28).**

END SET

You can activate/deactivate the Refresh Off Timer.

- **Press ◄/► to select "ON" or "OFF."**
  - ON: The function is automatically deactivated at the time set in "END TIME."
  - OFF: The Refresh Off Timer is deactivated.

END TIME

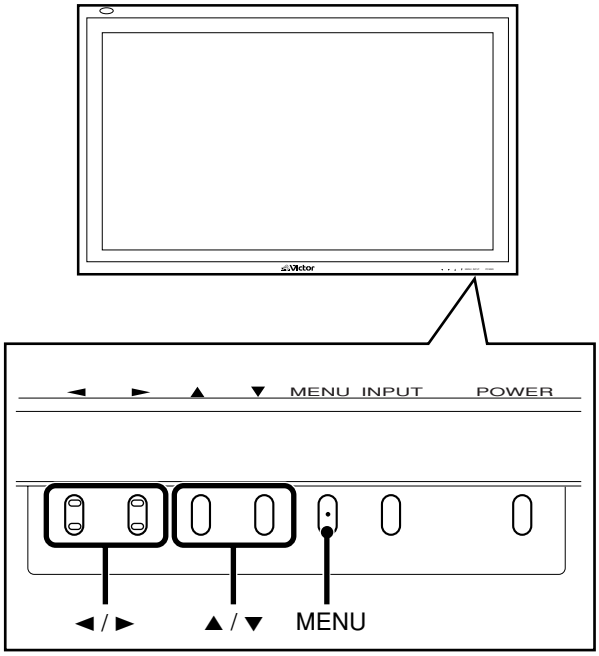
You can adjust the time to deactivate the function.

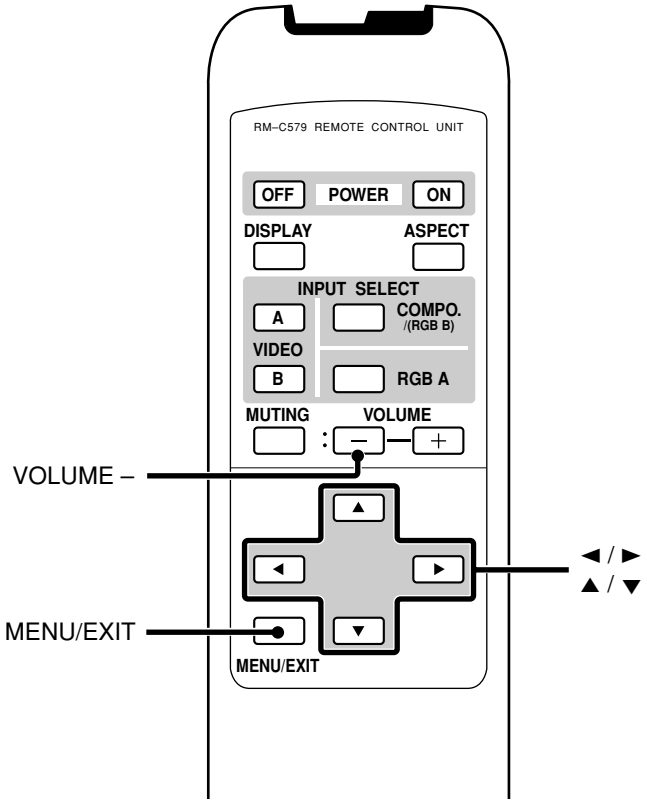
- **Set the hour and minute following steps 4 to 6 on "Setting the Clock" (page 28).**

### 4 Press MENU/EXIT (or MENU on the Monitor) repeatedly to exit from the menu operations.

**To cancel the Refresh function immediately**

Repeat steps ***1*** to ***3***, then select "OFF" in "REFRESH" by pressing ◄/►.



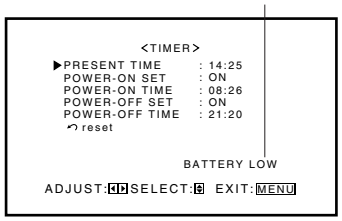




## Checking the Timer Battery

You can check the remaining time available from the timer battery on the TIMER, COLOR-REVERSE, and REFRESH menus.

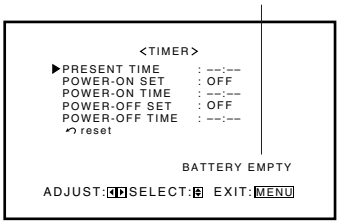
### When the battery becomes weak (BATTERY LOW)

"BATTERY LOW" appears on the screen.




### When the battery runs out (BATTERY EMPTY)

"BATTERY EMPTY" appears on the screen.




The clock is reset and "PRESENT TIME" is shown as "-- : --."

- You cannot replace the battery yourself. Please consult your dealer to replace it.
- Set the clock and the timer functions (Power On/Off Timer, Color-Reverse On/Off Timer, and Refresh On/Off Timer) again after replacing the battery.
- You can use functions other than the timer functions without replacing the battery.

**Notes on the Color-Reverse/Refresh Timer**

- Once you set the Color-Reverse/Refresh timer, the timer function is still activated even if you turn off the power. If you turn on the power after the "START TIME" you set, Color-Reverse/Refresh function is activated. To cancel the function, select "OFF" in the menu (pages 30 and 31).

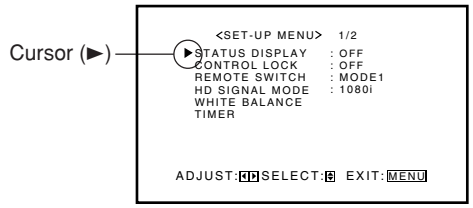
- The Color-Reverse timer is deactivated when you turn on or off the Color-Reverse function manually. The Refresh timer works in the same way as mentioned above. Select "TIMER" in the menu to control the functions automatically ( pages 30 and 31).

## Resetting All the Setup Menu Settings

You can reset all the following Setup Menu settings at a time, except the use time (HOUR METER).

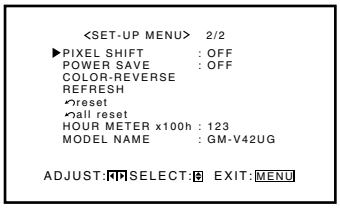
**1** **<u>On the remote control:</u>**
**Press MENU/EXIT while holding VOLUME – to display the Setup Menu.**

**<u>On the Monitor:</u>**
**Press MENU while holding ◄ to display the Setup Menu.**



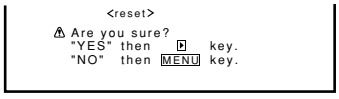

**2** **Press ▲/▼ to move the cursor (►) to "reset" (on the second page).**

- The Setup Menu consists of two pages. If you keep pressing ▲/▼, you can move to the other page from the current page.




**3** **Press ►.**

The confirmation screen appears.




**To cancel the reset,** press MENU/EXIT (or MENU on the Monitor).

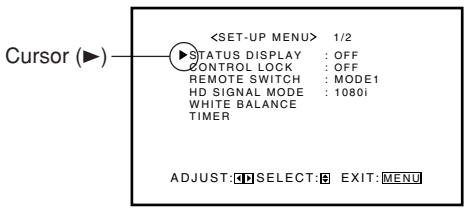
**4** **Press ► again to reset all the Setup Menu settings.**

## Resetting All the Menu Settings

You can reset all the Menu settings and adjustments at a time, except the use time (HOUR METER).

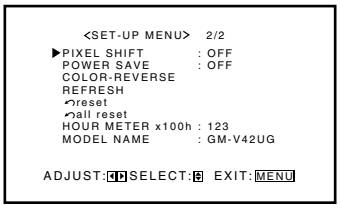
**1** **<u>On the remote control:</u>**
**Press MENU/EXIT while holding VOLUME – to display the Setup Menu.**

**<u>On the Monitor:</u>**
**Press MENU while holding ◄ to display the Setup Menu.**



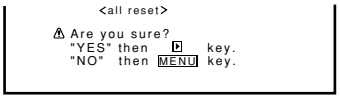

**2** **Press ▲/▼ to move the cursor (►) to "all reset" (on the second page).**

- The Setup Menu consists of two pages. If you keep pressing ▲/▼, you can move to the other page from the current page.




**3** **Press ►.**

The confirmation screen appears.




**To cancel the reset,** press MENU/EXIT (or MENU on the Monitor).

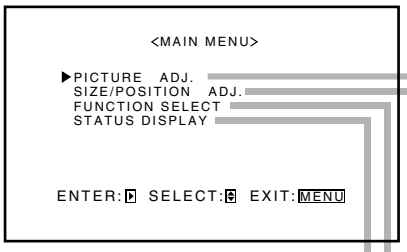
**4** **Press ► again to reset all the Menu settings and adjustments.**

The power is turned off, then turned on again automatically.

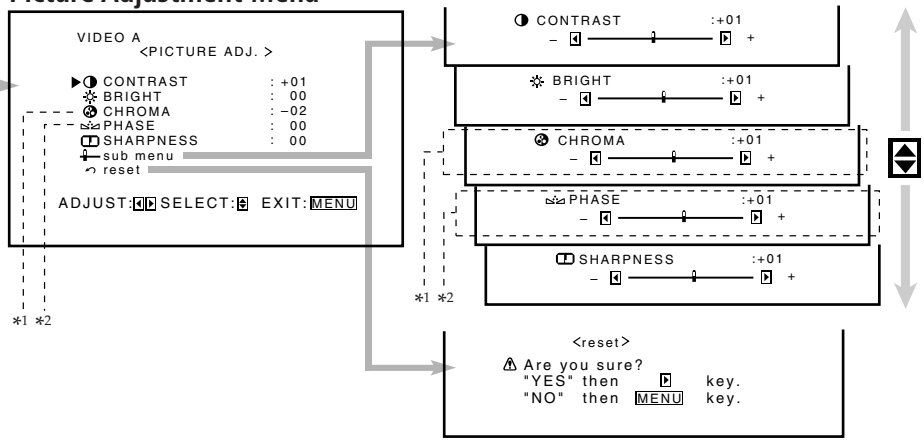
# Menu Classifications

## Main Menu

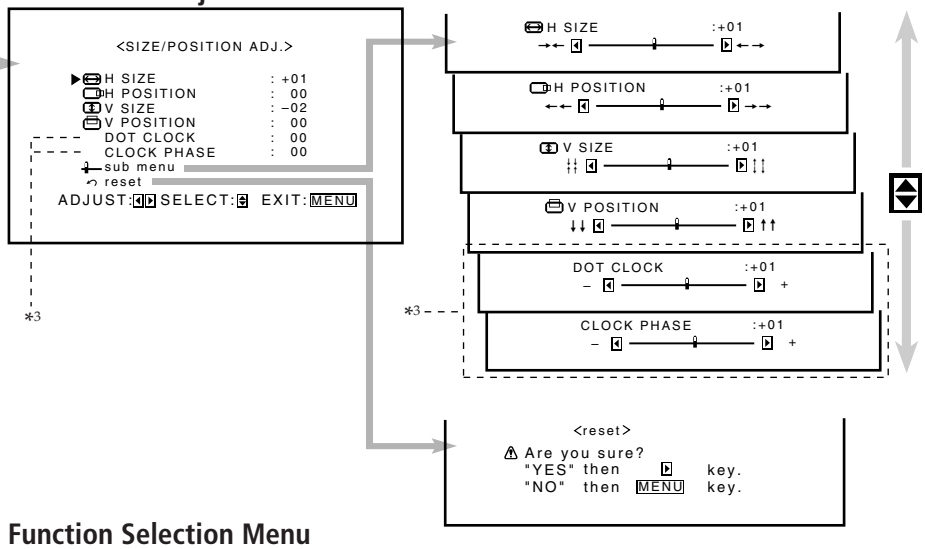
### Main Menu



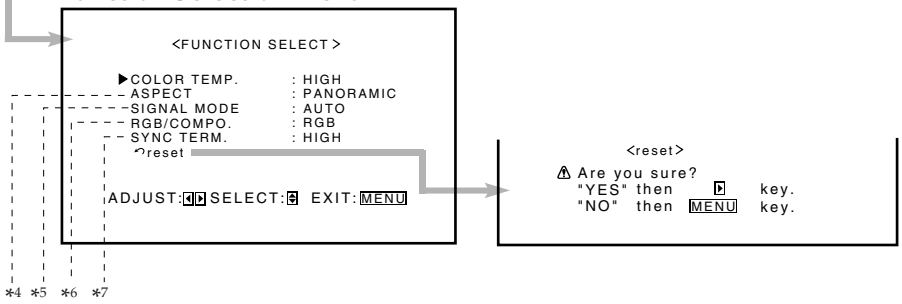

### Picture Adjustment Menu



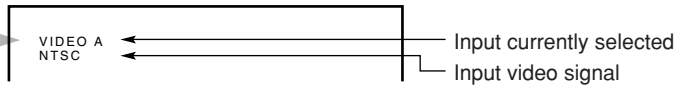

### Size/Position Adjustment Menu




### Function Selection Menu




### Status Display




Ex. When “VIDEO A” input is selected.

*1 Adjustable when viewing the NTSC or PAL signal, or component signal.
*2 Adjustable when viewing the NTSC signal or component signal.
*3 Adjustable when RGB A or RGB B input is selected.
*4 Adjustable when VIDEO A, VIDEO B, or COMPONENT input is selected.
*5 Not adjustable when viewing the following component signals—720/60p, 1080/50i, and 1080/60i (1035/60i).
*6 Adjustable when RGB B or COMPONENT input is selected.
*7 Adjustable when RGB B input is selected.

PICTURE ADJ. (Picture adjustment): See page 16.

| | |
|---|---|
| CONTRAST | Adjusts the contrast of the picture. |
| BRIGHT | Adjusts the brightness of the picture. |
| CHROMA*1 | Adjusts the color density of the picture. |
| PHASE*2 | Adjusts the color phase. |
| SHARPNESS | Adjusts the outlines of the picture. |
| sub menu | Displays the fine adjustment bar. |
| reset | Resets the Picture Adjustment Menu settings to defaults. |

SIZE/POSITION ADJ. : See page 17.

| | |
|---|---|
| H.SIZE | Adjusts the horizontal screen size. |
| H. POSITION | Adjusts the horizontal screen position. |
| V. SIZE | Adjusts the vertical screen size. |
| V.POSITION | Adjusts the vertical screen position. |
| DOT CLOCK*3 | Adjusts to eliminate stripes or flickering. Use with "CLOCK PHASE." Normally, no adjustment is needed. |
| CLOCK PHASE*3 | Adjusts to eliminate stripes or flickering. Use with "DOT CLOCK." Normally, no adjustment is needed. |
| sub menu | Displays the fine adjustment bar. |
| reset | Resets Size/position Adjustment Menu settings to defaults. |

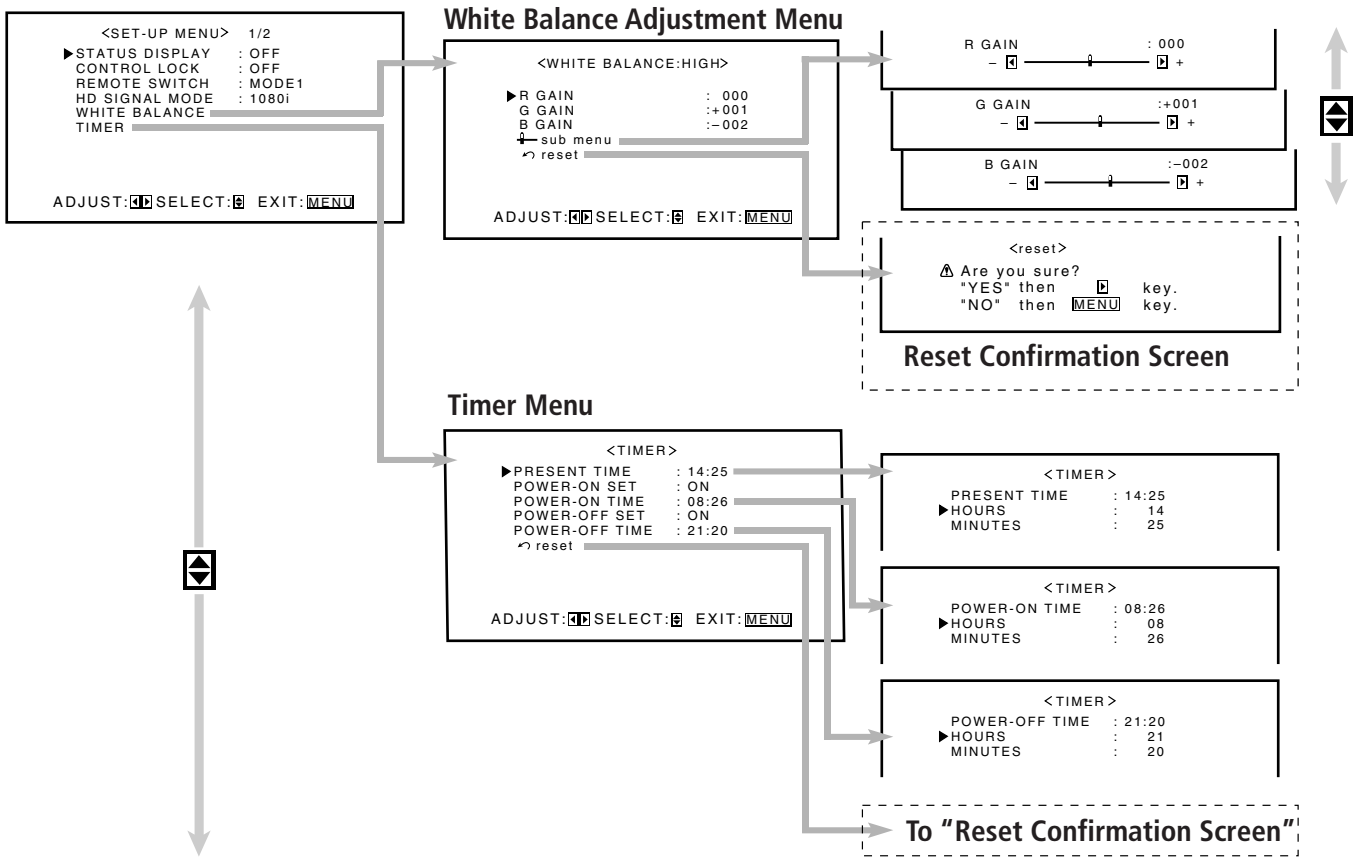
FUNCTION SELECT: See pages 19 to 23.

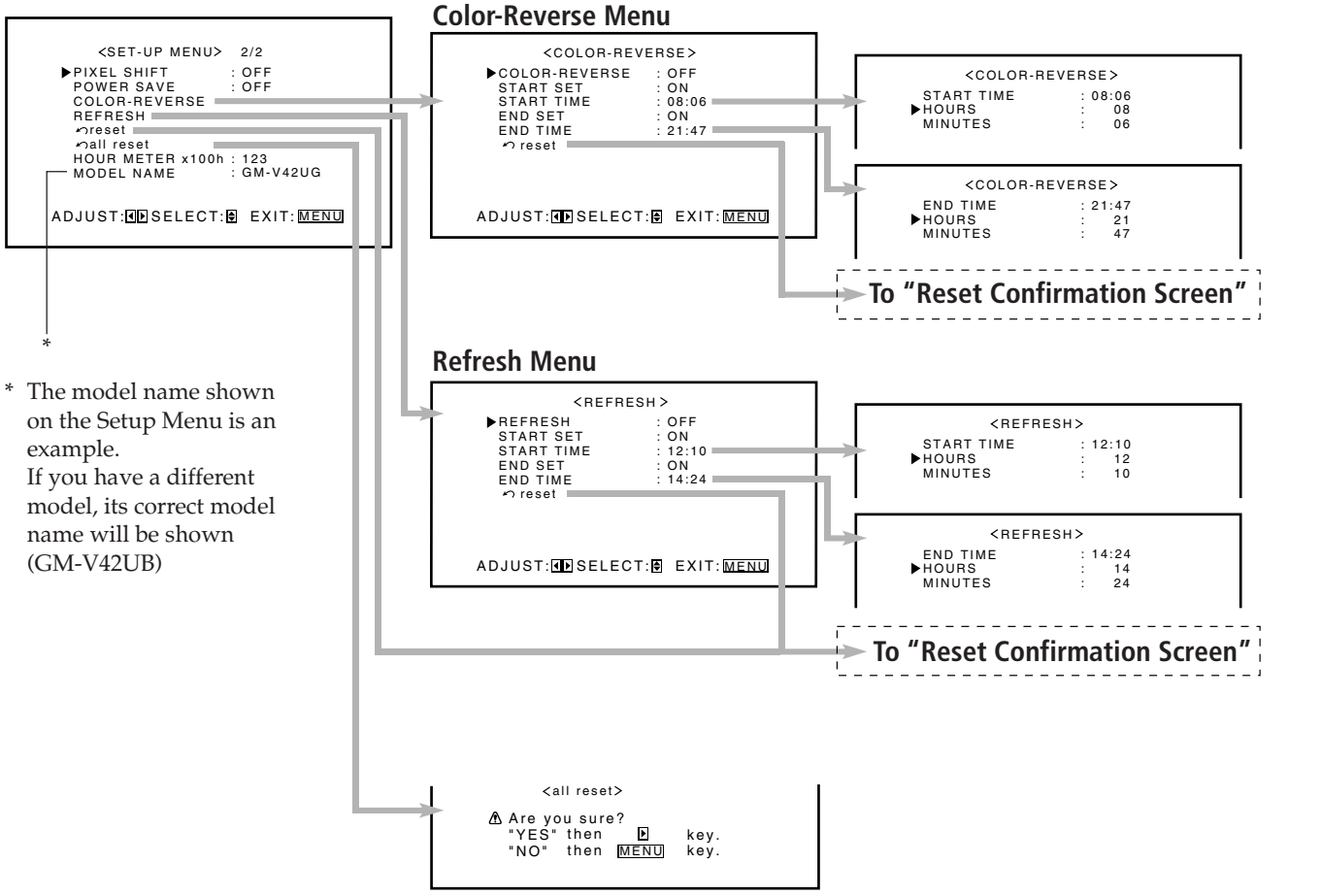
| | |
|---|---|
| COLOR TEMP. | Adjusts the color temperature. Use when the picture is reddish or bluish. |
| ASPECT*4 | Selects the horizontal to vertical ratio of the screen. |
| SIGNAL MODE*5 | • Selects a color system (NTSC, PAL M, PAL N) when VIDEO A or VIDEO B input is selected.<br>• Selects a scan system—480i, 576i, 480p, 720p, 1080i (1035i)—when COMPONENT input is selected. Normally, set to "AUTO." |
| RGB/COMPO.*6 | Selects the usage of the COMPONENT/RGB B terminals either as the COMPONENT input terminal or as the RGB B input terminal. |
| SYNC TERM.*7 | Adjusts the resistance of RGB B input terminals. |
| reset | Resets the Function Selection Menu settings to defaults. |

*1 Adjustable when viewing the NTSC or PAL signal, or component signal.
*2 Adjustable when viewing the NTSC signal or component signal.
*3 Adjustable when RGB A or RGB B input is selected.
*4 Adjustable when VIDEO A, VIDEO B, or COMPONENT input is selected.
*5 Not adjustable when viewing the following component signals—720/60p, 1080/50i, and 1080/60i (1035/60i).
*6 Adjustable when RGB B or COMPONENT input is selected.
*7 Adjustable when RGB B input is selected.

# Menu Classifications (Continued)

## Setup Menu




* The model name shown on the Setup Menu is an example.
If you have a different model, its correct model name will be shown (GM-V42UB)

| | |
|---|---|
| STATUS DISPLAY | Sets if you want the input terminal and the type of signal to be indicated on the screen just after inputs are switched. (See page 25.) |
| CONTROL LOCK | Sets the Monitor so that it cannot be operated with the buttons on itself. (See page 26.) |
| REMOTE SWITCH | Set the selectable input terminals when controlling the Monitor with the external control unit (See page 27.) |
| HD SIGNAL MODE | Select the High-Definition (HD) signal type. (See page 27.) |
| WHITE BALANCE | Adjusts R GAIN, G GAIN and B GAIN finely each for “HIGH” and “LOW” settings of the color temperature. (See page 19.) |
| TIMER | Sets the clock and the Power On/Off Timer. (See page 28.) |
| PIXEL SHIFT | Sets a screen saver. (See page 29.) |
| POWER SAVE | Sets the power save function. (See page 29.) |
| COLOR-REVERSE | Use to reverse the color of the still picture to prevent its afterimage from being left on the screen. (See page 30.) |
| REFRESH | Use to eliminate afterimages on the screen. (See page 31.) |
| reset | Resets the Setup Menu settings to defaults. (See page 33.) |
| all reset | Resets the all menu settings and adjustments to defaults. (See page 33.) |
| HOUR METER | Use to confirm the hours of use. (See page 25.) |
| MODEL NAME | Use to confirm your model name. (See page 25.) |

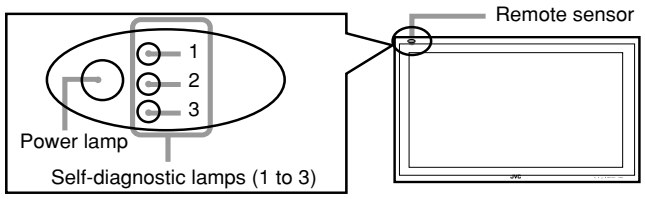
# Troubleshooting

Solutions to common problems related to the Monitor are described here. If none of the solutions presented here solves the problem, unplug the Monitor and consult an authorized dealer or service center.

| Symptom | Probable cause | Corrective action | Page |
|---|---|---|---|
| **Power is not supplied.** | • Is the power cord disconnected? | • Insert the power cord (plug) firmly. | 11 |
| | • Is the POWER switch turned on? | • Turn on the POWER switch. | 14 |
| **Power is suddenly turned on or off.** | • Is the Power On/Off Timer activated? | • Set the timer to "OFF" on the menu. | 28 |
| **Video image does not appear, or audio sound does not occur.** | • Is the correct input selected? | • Select the correct input by pressing INPUT SELECT (VIDEO A, VIDEO B, COMPO./(RGB B) or RGB A) on the remote control (or INPUT on the Monitor). | 14 |
| | • Are the devices connected correctly? | • Connect the devices correctly. | 11, 12 |
| | • Are signals being supplied from the connected devices? | • Set the devices correctly. | — |
| | • Is "RGB/COMPO." set correctly if using the COMPONENT/RGB B terminals? | • Set it correctly. | 22 |
| | • Are input signals (scanning frequency, etc.) appropriate? | • Check if the signal is appropriate (scanning frequency, etc.), and input the appropriate signal. | 10 |
| | • Is brightness adjusted correctly? | • Adjust brightness on the menu. | 16 |
| | • Is volume set at minimum? | • Adjust volume. | 14 |
| | • Are the diagnostic lamps turned on? | • Refer to "Self-diagnostic indication," and take an appropriate action. | 39 |
| **The picture becomes blurred.** | • Is the signal RGB input? | • Adjust DOT CLOCK and CLOCK PHASE using the menu. | 17 |
| | • Is the RGB B connecting cord long? | • Set the SYNC TERM. "LOW." | 23 |
| **Color is abnormally dark or bright.** | • Is brightness adjusted correctly? | • Adjust BRIGHT (brightness) using the menu. | 16 |
| | • Is picture quality (color density, etc.) adjusted correctly? | • Adjust picture using the menu. | 16 |
| | "TEMP. OVER" lights (or flashes) at the right bottom of the screen. | • Refer to "Self-diagnostic indication," and take an appropriate action. | 39 |
| **Color is poor or unstable.** | • Is the correct broadcast system (color system) selected? | • Set SIGNAL MODE (color system) to "AUTO." | 21 |
| | • Are signals (scanning frequency, etc.) to connected devices appropriate? | • Check if the signal is appropriate (scanning frequency, etc.), and input the appropriate signal. | 10 |
| **Color is suddenly reversed or whitened.** | • Is the Color-Reverse/Refresh timer activated? | • Set "COLOR-REVERSE"/"REFRESH" to "OFF" on the menu. | 30, 31 |
| **The picture is cut or shifted toward one side.** | • Is the size or position of the screen adjusted properly? | • Adjust H.SIZE, V.SIZE, H.POSITION or V.POSITION using the menu. | 17 |
| **The remote control does not work.** | • Are the batteries correctly set? | • Insert batteries correctly, observing the polarities (⊕ and ⊖). | 8 |
| | • Are the batteries exhausted? | • Replace with new batteries. | 8 |
| | • Is there any object blocking the path between the remote control and remote sensor? | • Remove any blocking object. | — |
| | • Is the Monitor too far away from you? | • Move toward the Monitor, then operate the remote control. | — |
| **The buttons on the Monitor do not work.** | • Is the Control Lock function in use? | • Set the Control Lock function to "OFF" using the menu. | 26 |

## Self-diagnostic Indication

When something abnormal occurs with the Monitor, this function informs you of the condition of the Monitor with self-diagnostic lamps, allowing for smooth service work.




### ❑ If the screen monitor turns off and self-diagnostic lamps light or flash

If the self-diagnostic lamps light or flash in red, check the following before consulting the dealer where you purchased the Monitor.

- **If self-diagnostic lamp 1 (upper) flashes, lamp 2 (middle) lights, and lamp 3 (lower) flashes**
  This may be caused by the dusty intakes on the rear. If this happens, switch off the main power by POWER switch (set to "○ (off)"), unplug the AC power cord, then clean the intakes by referring to the instruction on page 2.
  – After cleaning, switch on the Monitor's main power again. If self-diagnostic lamps do not go off, consult your dealer immediately.

### ❑ If the screen monitor dims a little and "TEMP. OVER" lights (or flashes)

If "TEMP. OVER" lights or flashes at the right bottom of the screen, check the following before consulting the dealer where you purchased the Monitor.

"TEMP. OVER" appears to warn you of the internal heat buildup, which is usually caused by accumulated dust around the intakes or by improper installation. If the cause of the internal heat buildup is eliminated, this indication disappears and the screen recovers the brightness.

- **If "TEMP. OVER" flashes in yellow**
  This may be caused by the dusty intakes on the rear. If this happens, switch off the main power by POWER switch (set to "○ (off)"), unplug the AC power cord, then clean the intakes by referring to the instruction on page 2.
  – After cleaning, switch on the Monitor's main power again. If "TEMP. OVER" still flashes, this trouble may be caused by improper installation or improper location of the Monitor. In this case, consult your dealer immediately to solve this improper installation and to improve the circumstances around the Monitor.
- **If "TEMP. OVER" lights in red**
  "TEMP. OVER" will be shown for abut two minutes, the Monitor will shut off automatically, then the Self-diagonal lamps light in red. If this happens, switch off the main power by POWER switch (set to "○ (off)"), unplug the AC power cord, then consult your dealer immediately.

If the trouble still persists, follow the procedure below:

**1 Check which lamps are lighting or flashing.**
On the Self-diagnostic Report Sheet (below), check the box next to "Lights" or "Flashes" of the corresponding lamp or lamps.
- Only one lamp may light or flash, or all three lamps may do so.

**2 Switch off the POWER switch on the back of the Monitor.**

**3 Unplug the power cord.**

**4 Call your dealer and tell which lamps are lighting or flashing. (Copy and fax the Self-diagnostic Report Sheet below.)**

**Note:**
If you switch on the main power immediately after switching it off (or after recovering from a brief power interruption), the self-diagnostic lamps may light (or flash), and no image may appear on the screen. In this case, switch off the main power again, wait for about 10 seconds, then switch it on again. If no self-diagnostic lamps light or flash, you can operate and use the Monitor as usual.

## Self-diagnostic Report Sheet

Store name where you purchased the Monitor

**To**

Model Name:
Plasma Display Monitor
GM-V42UG/GM-V42UB

The self-diagnostic lamps light or flash as listed on the following table. Please give me immediate advice or service if necessary.

| Self-diagnostic lamps | | | |
|---|---|---|---|
| NO. | Lamp position | Conditions | |
| 1 | Upper | ☐ Lights | ☐ Flashes |
| 2 | Middle | ☐ Lights | ☐ Flashes |
| 3 | Lower | ☐ Lights | ☐ Flashes |

| | |
|---|---|
| TEMP. OVER | ☐ Flashes |

| | |
|---|---|
| **Your Name:** | |
| **Telephone No.:** | |
| **Address:** | |

# Specifications

| | Model name | GM-V42UG | GM-V42UB |
|---|---|---|---|
| General | Frame color | Gray | Silver |
| | Screen size | Type 42 wide format | |
| | Aspect ratio | 16:9 (Wide format) | |
| | Number of pixels displayed | 852 (H) x 480 (V) | |
| | Number of colors displayed | 16.77 million (256 colors for each of RGB) | |
| | Effective screen size (W x H, Diagonally) | 93.3 cm x 53.3 cm (36-3/4" x 21"), 107.4 cm (42-3/8") | |
| | Weight | 35.1 kg (77.4 lbs.) | |
| | External dimensions (W x H x D) | 103.5 cm x 64.0 cm x 8.9 cm (40-3/4" x 25-1/4" x 3-5/8")<br>* Excluding protruding parts | |
| | Power requirements | AC 120 V, 50 Hz/60 Hz | |
| | Rated input current | 2.4 A | |
| | Compatible systems | | |
| | VIDEO A, VIDEO B input | NTSC, PAL M, PAL N | |
| | COMPONENT input | 480i, 576i, 480p, 576p, 720/60p, 1080/50i, 1080/60i (1035/60i) | |
| | Audio power output | SPEAKER OUT: 6 Ω to 8 Ω<br>3 W + 3 W (TYP at impedance 6 Ω) | |
| | Operating conditions | Temperature: 0 °C to 40 °C<br>Relative humidity: 20 % to 80 % (non-condensation)<br>(Slightly variable depending on ambient conditions for installation.) | |
| Input/output terminals*1 | VIDEO A | | |
| | Video input | BNC terminal x 1, 1 V(p-p), 75 Ω | |
| | Video output | BNC terminal x 1, 1 V(p-p), 75 Ω | |
| | Audio input | Pin jack terminal x 2 (L/R)<br>500 mV(rms), high impedance | |
| | VIDEO B | | |
| | Y/C input | Y/C terminal x 1<br>Y: 1 V(p-p), 75 Ω<br>C: 0.286 V(p-p), 75 Ω (for NTSC)<br>C: 0.3 V(p-p), 75 Ω (for PAL) | |
| | Video input | Pin jack terminal x 1, 1 V(p-p), 75 Ω | |
| | Audio input | Pin jack terminal x 2 (L/R)<br>500 mV(rms), high impedance | |
| | COMPONENT/RGB B | | |
| | COMPONENT input | BNC terminal x 3<br>Y: 1 V(p-p), 75 Ω $P_B$/B-Y: 0.7 V(p-p), 75 Ω $P_R$/R-Y: 0.7 V(p-p), 75 Ω | |
| | RGB input | BNC terminal x 5<br>Analog RGB:<br>R: 0.7 V(p-p), 75 Ω G: 0.7 V(p-p), 75 Ω B: 0.7 V(p-p), 75 Ω<br>G on sync: 1 V(p-p), 75 Ω (negative sync)<br>Horizontal sync/Composite sync (HD/Cs):<br>HD: 0.3 V(p-p) to 5 V(p-p), 1 kΩ (positive/negative polarity) / 75 Ω<br>Cs: 0.3 V(p-p) to 5 V(p-p), 1 kΩ (positive/negative polarity) / 75 Ω<br>Vertical sync (VD):<br>VD: 1 V(p-p) to 5 V(p-p), 1 kΩ (positive/negative polarity) / 75 Ω | |
| | Audio input | Pin jack terminal x 2 (L/R) 500 mV(rms), high impedance | |

| | Model name | GM-V42UG | GM-V42UB |
|---|---|---|---|
| Input/output terminals*1 | RGB A<br>RGB input | D-sub 3-row 15-pin terminal x 1,<br>Video signal: 0.7 V(p-p), 75 Ω<br>G on sync: 1 V(p-p), 75 Ω (negative sync)<br>Horizontal sync/Composite sync (HD/Cs):<br>HD: 0.3 V(p-p) to 5 V(p-p), 470 Ω (positive/negative polarity)<br>Cs: 0.3 V(p-p) to 5 V(p-p), 470 Ω (positive/negative polarity)<br>Vertical sync (VD):<br>VD: 1 V(p-p) to 5 V(p-p), 470 Ω (positive/negative polarity) | |
| | Audio input | Stereo mini jack terminal x 1<br>500 mV(rms), high impedance | |
| | REMOTE terminals | RS-232C: D-sub 9-pin terminal x 1<br>MAKE: Mini DIN 4 pin<br>WIRED: Stereo mini jack terminal x 1 | |
| | OPTION terminal | Used exclusively for JVC's optional parts | |
| | AUDIO OUT terminals | Pin jack terminal x 2 (L/R)<br>Output impedance 600 Ω | |
| | SPEAKER OUT (L/R) terminals | Impedance 6 Ω to 8 Ω | |

*1 To use the COMPONENT/RGB B terminals either as the COMPONENT input terminal or as the RGB B input terminal, you need to set "RGB/COMPO." correctly (see page 22).

- For easy understanding, pictures and illustrations are shown by being emphasized, omitted or composed, and may be more or less different from actual products.
- Design and specifications are subject to change without notice.
- IBM and IBM PC are registered trademarks of International Business Machines Corporation. Macintosh is registered trademarks of Apple Computer, Inc.
  All other product names mentioned herein are used for identification purposes only, and may be the trademarks or registered trademarks of their respective companies.

## Options (not supplied)

| | |
|---|---|
| Stand Unit | TS-C420P1W, TS-C420P4W, TS-C420P5W, TS-C420P7W |
| Wall Mounting Unit | TS-C420P2W, TS-C420P6W |
| Ceiling Suspension Unit | TS-C420P3W |
| Cooling Fan Unit | TS-C01FANG |
| Speaker Unit | TS-C421SPG, TS-C421SPGU |

* Consult your dealer to see if other options are available.

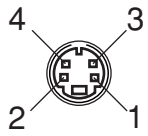
## Notice on transportation

This Monitor is precision equipment and needs dedicated packing material for transportation.
Never use any packing material supplied from other than JVC or JVC-authorized dealers.

# Specifications (Continued)

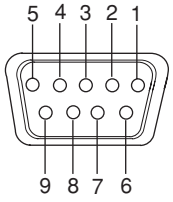
## Pin assignment (Specifications for terminals)

• **Y/C terminal**



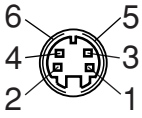

| Pin number | Signal name |
|---|---|
| 1 | GND (Y) |
| 2 | GND (C) |
| 3 | Y |
| 4 | C |

• **RS-232C terminal**
This is a female type connector.



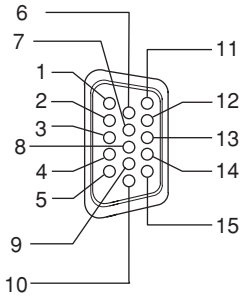

| Pin number | Signal name | Pin number | Signal name |
|---|---|---|---|
| 1 | DCD | 6 | DSR |
| 2 | RD | 7 | RTS |
| 3 | TD | 8 | CTS |
| 4 | DTR | 9 | RI |
| 5 | GND | | |

• **MAKE terminal**




| Pin number | Signal name |
|---|---|
| 1 | GND |
| 2 | GND |
| 3 | SW2 |
| 4 | SW1 |
| 5 | SW DET |
| 6 | GND |

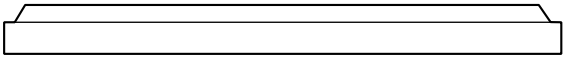
• **RGB Input Terminal**



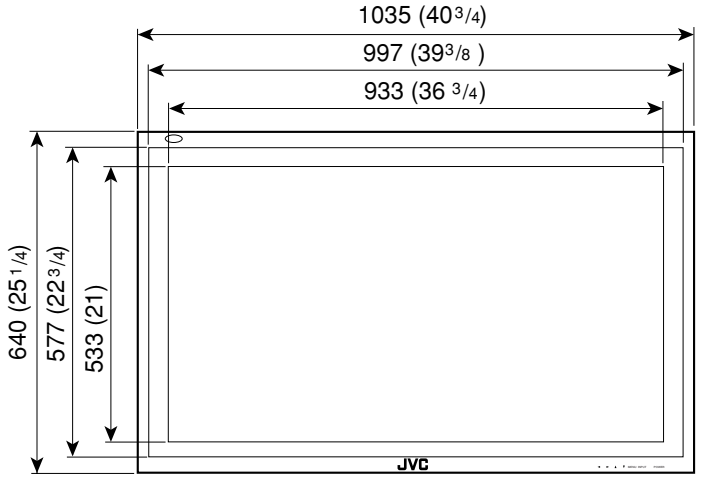

| Pin number | Signal name | Pin number | Signal name |
|---|---|---|---|
| 1 | Red | 9 | N/C |
| 2 | Green | 10 | GND |
| 3 | Blue | 11 | GND |
| 4 | N/C | 12 | N/C |
| 5 | GND | 13 | HD/Cs |
| 6 | GND | 14 | VD |
| 7 | GND | 15 | N/C |
| 8 | GND | External | GND |

## Dimensions

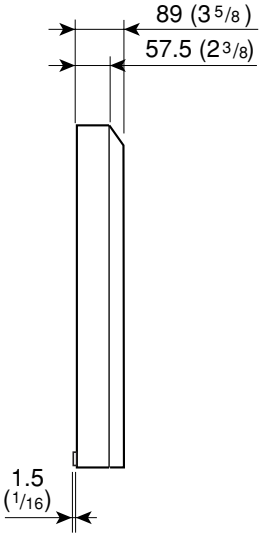
**Top view**



**Front view**




**Side view**




Unit: mm (inch)

JVC
VICTOR COMPANY OF JAPAN, LIMITED

© 2003 VICTOR COMPANY OF JAPAN, LIMITED

Printed in Japan
0603-MA-MW-VP